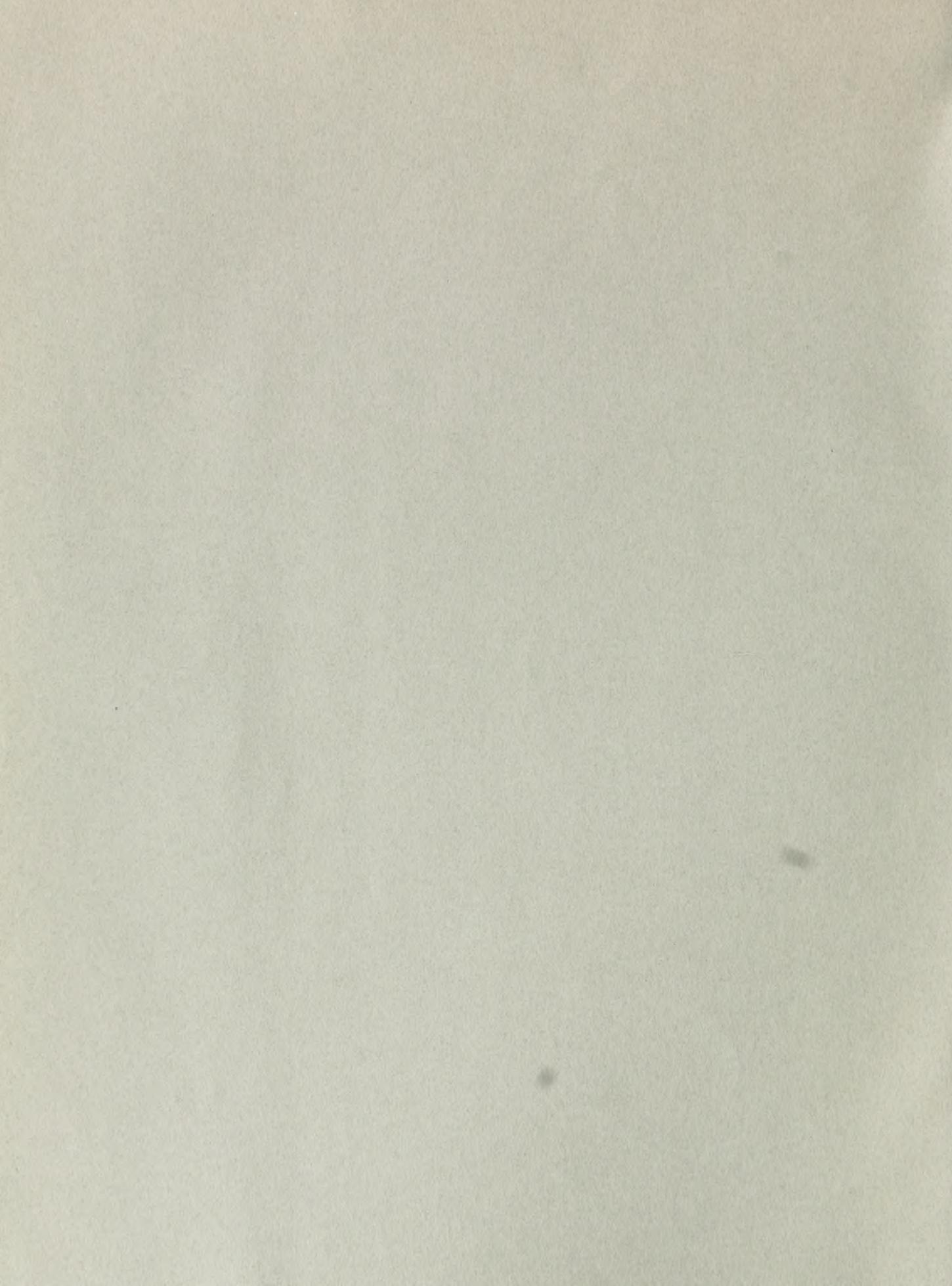
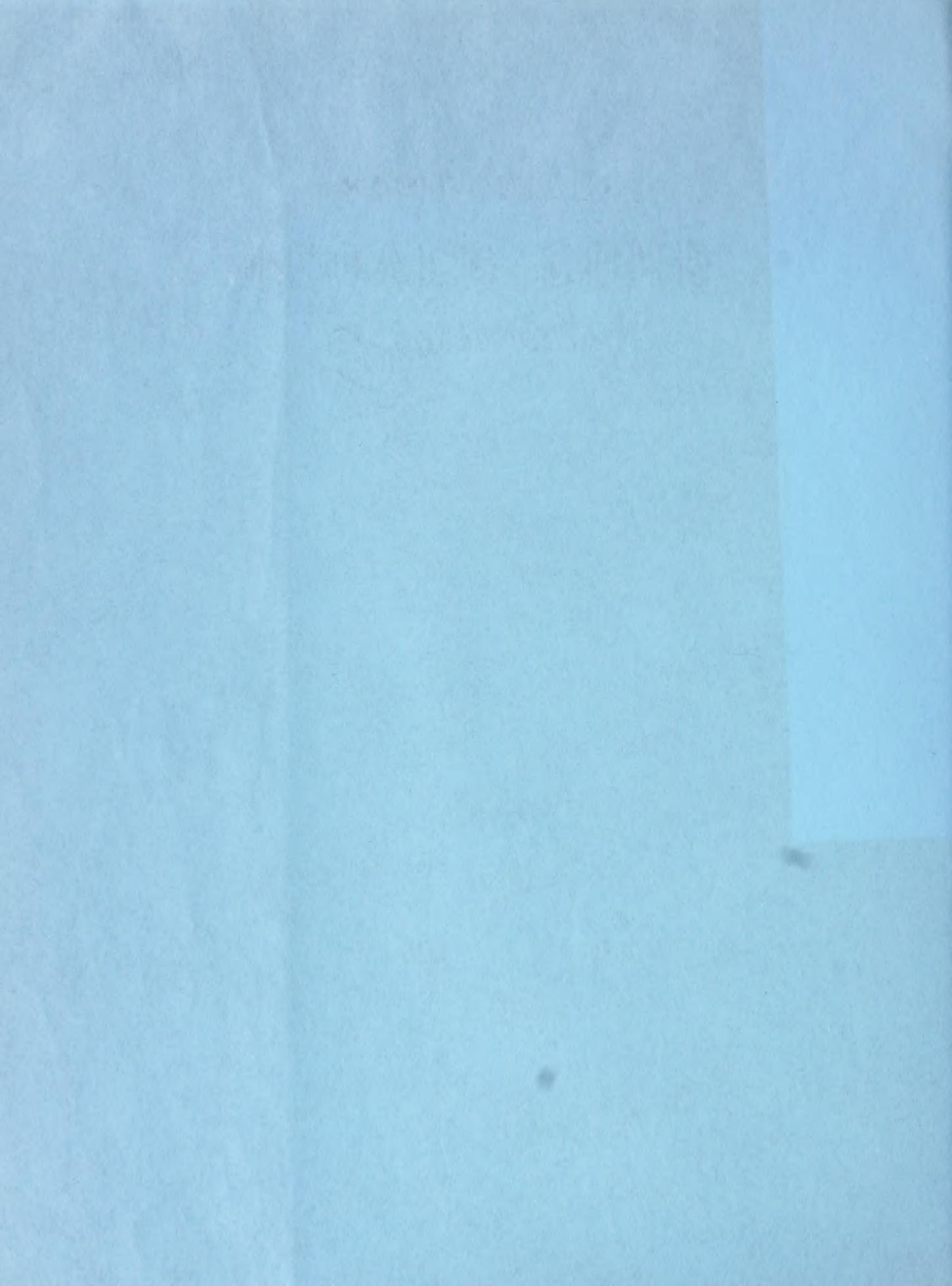




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DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

BULLETIN No. 40-A

SOUTH COASTAL BASIN INVESTIGATION

DETAILED ANALYSES

showing

QUALITY OF IRRIGATION WATERS

(Supplemental to Bulletin No. 40)

1933



TABLE OF CONTENTS

| | <i>Page</i> |
|---|-------------|
| Acknowledgment ----- | iii |
| Organization, State Department of Public Works----- | iv |
| Organization, U. S. Bureau of Plant Industry----- | v |
| Foreword ----- | vi |
| Introduction ----- | vii |
| Methods of Analysis and Interpretation----- | viii |

LIST OF TABLES

Table

| | |
|--|------|
| 1 Surface Waters in San Fernando Valley----- | 1 |
| 2 Imported Waters—San Fernando Valley----- | 3 |
| 3 Wells in San Fernando Valley----- | 5 |
| 4 Wells in Upper San Gabriel Valley----- | 9 |
| 5 Surface Waters in Upper San Gabriel Valley----- | 15 |
| 6 Wells and Surface Waters in San Timoteo Area----- | 18 |
| 7 Wells and Surface Waters in Venice Area----- | 22 |
| 8 Wells in Los Angeles Area----- | 27 |
| 9 Surface Waters in Los Angeles Area----- | 32-a |
| 10 Surface and Subsoil Waters in Lower Santa Ana River Area----- | 33 |
| 11 Wells in Lower Santa Ana River Area----- | 36 |
| 12 Wells in Lower San Gabriel River Area----- | 50 |
| 13 Surface Waters in Lower San Gabriel River Area----- | 60 |
| 14 Wells in Redondo-Long Beach Area----- | 61 |
| 15 Surface Waters in Redondo-Long Beach Area----- | 74 |
| 16 Wells in San Bernardino Area----- | 75 |
| 17 Wells in Chino Area----- | 83 |
| 18 Wells in Riverside Area----- | 91 |
| 19 Wells in Temescal Area----- | 99 |
| 20 Wells in Santa Ana-Irvine Area----- | 107 |
| 21 Surface and Subsoil Waters in Santa Ana-Irvine Area----- | 116 |
| 22 Surface Waters Above Lower Canyon of Santa Ana River----- | 117 |
| 23 Sewage Effluent—South Coastal Basin----- | 125 |
| 24 Industrial Waste Waters—South Coastal Basin----- | 127 |
| 25 Pacific Ocean Water Analyses----- | 129 |
| 26 Springs, Lakes, and Subsoil Waters Above Lower Canyon of Santa Ana River ----- | 130 |

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ACKNOWLEDGMENT

Acknowledgment previously made in Bulletin No. 40 of those extending their valuable assistance and cooperation in making it possible to assemble these basic data is reiterated.

Acknowledgment is made to the laboratory which performed the original analyses by reference to a footnote on the last page of each table.

ORGANIZATION

STATE DEPARTMENT OF PUBLIC WORKS
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FOREWORD

This report supplements Bulletin No. 40, "Quality of Irrigation Waters in South Coastal Basin," 1933, a report of cooperative work by the Bureau of Plant Industry, United States Department of Agriculture, and the Division of Water Resources, State Department of Public Works.

Herewith are presented the analytical data which formed the basis upon which Bulletin No. 40 was written. These tables, 26 in number, comprise the data referred to on page 17 of the report as being available in the files of the Division of Water Resources.

INTRODUCTION

The analytical data in the following tables comprise the total of that assembled for and used as a basis for Bulletin No. 40. A small amount of additional data has been assembled by the Division of Water Resources since April, 1933, but is not included in this report. Certain cooperators have continued to make observations of water quality, particularly in Los Angeles and Orange counties, which will in future serve to maintain the continuity of the present available data.

The area which the data cover is referred to as the South Coastal Basin and includes the drainage basins of the Los Angeles, San Gabriel and Santa Ana rivers, and of the creeks that discharge directly into the Pacific Ocean in the vicinity of Santa Monica, as well as those so discharging in the vicinity of Newport Bay.

The locations of all sampling points for which water analysis data are available are shown on a map of the South Coastal Basin to be found in pocket.

The numbers used for the designation of wells, for which water samples have been analyzed, are the same for identical wells as those used in Bulletin No. 39 and supplements thereto, by Division of Water Resources, State Department of Public Works. Sources other than wells have been numbered according to a system described in the same bulletin as "Location Numbers." A descriptive letter preceding the location number has been used to classify the source of the water sample. The letter "S" designates a source where water appears on the surface of the ground as a stream, spring or lake, open or tile drain, or imported water. The letter "R" denotes sewage water, and "W" denotes industrial waste water. The letter following the number differentiates similar sources in the same quadrangle. Solid or open circles are used for wells and triangles for all other sources.

To facilitate tabulating the analytical data, the South Coastal Basin was divided into thirteen areas for the most part delimited by natural boundaries and named arbitrarily so that the name generally describes the geographical location of the area.

METHODS OF ANALYSIS AND INTERPRETATION

Methods of Analysis.

The so-called complete analyses, made in the laboratory of the Division of Water Resources by Mr. J. M. Sanchis, included the following determinations: (1) Specific electrical conductance; (2) Hydrogen ion concentration; (3) Carbonate and bicarbonate; (4) Chloride; (5) Sulphate; (6) Nitrate; (7) Calcium; (8) Magnesium; (9) Sodium. In addition to these the boron was determined in the Rubidoux Laboratory of the Division of Western Irrigation Agriculture by Messrs. L. V. Wilcox and John T. Hatcher. The so-called partial analyses included only (1) Specific electrical conductance; (2) Boron; (3) Carbonate and bicarbonate; (4) Chloride.

(1) Specific electrical conductance was determined by the conventional set-up with a Wheatstone bridge.¹ The results, expressed as reciprocal ohms at 25° centigrade ($K \times 10^5 @ 25^\circ C$), are taken to represent a measurement of the total dissolved electrolytes in the water and are used in lieu of the determination of total dissolved solids.

(2) Hydrogen ion concentration was determined by the use of color indicators and an apparatus in which colored glass discs were used as standards. These colorimetric methods were checked occasionally by the electrometric method.

(3) The carbonate and bicarbonate ions were determined by titration with 0.05 Normal sulphuric acid, using phenolphthalein indicator for the carbonate and methyl orange for bicarbonate.

(4) Chloride was determined by adding potassium chromate indicator to the solution resulting from the carbonate-bicarbonate titration and then titrating with 0.05 Normal silver-nitrate solution.

(5) Sulphate was determined gravimetrically as barium sulphate by the Official Method except that silica was not removed prior to the precipitation of the barium sulphate. The relatively small quantity of silica occurring in these waters does not appear to interfere so long as the volume of the aliquot is not concentrated below 75 to 100 cc.

(6) Nitrate was determined by the use of phenoldisulfonic acid according to the Official Method except that the color comparison was made with an apparatus in which colored glass discs were used as standards, these discs having been calibrated with solutions of known nitrate concentration.

(7) Calcium was determined by precipitation as the oxalate, filtered, redissolved in hot dilute sulphuric acid, and titrated with standard permanganate solution substantially according to the Official Method.

¹ Scofield, C. S. Measuring the Salinity of Irrigation Waters and of Soil Solutions with the Wheatstone Bridge. U. S. Dept. Agri. Circ. 232, July, 1932.

(8) Magnesium was determined by precipitation as magnesium ammonium phosphate, which was ignited and weighed as the pyrophosphate.

(9) Sodium was determined by precipitation as sodium-uranylzinc-acetate, and after washing and drying was weighed as such.

(10) Boron was determined by the electrometric method of titration.¹

Interpretation of Analyses.

Specific Electrical Conductance: This is a measurement of a definite physical property of a water sample, and is regarded by the writer as quite as significant a measure of the total dissolved solids as the results of a gravimetric determination in which salinity is expressed as parts per million. The conductance gives no clue as to the character of the salts in solution, it implies only the aggregate quantity of dissolved electrolytes. In respect to irrigation waters in the South Coastal Basin, if the boron concentration is below the limit of tolerance, and the sodium percentage is less than 60, it is believed that when the conductance is less than 100 the water is safe for general use. When the conductance is more than 100 but less than 300 it may be safe to use the water where drainage conditions are good or where the more tolerant crops are grown, but as the conductance approaches the upper limit of this range consideration should be given to the conditions of use and to the character of the salts involved. Waters having conductances above 300 are generally to be regarded as unsuited to irrigation use, although it should be understood that subsoil waters of that degree of salinity do not imply root zone conditions intolerable to many crop plants. In general terms it may be said that the soil solution or subsoil water is usually 5 to 8 times as concentrated as the irrigation water used.

Boron: The concentration of this constituent is expressed as parts per million of elemental boron in the solution. Experience in the South Coastal Basin has shown that under existing climatic conditions the critical concentration for this constituent in irrigation water lies between 0.5 and 1.0 ppm where the water is to be used for the more sensitive crop plants such as lemons and walnuts.

Per Cent Sodium: This expression as used in respect to the quality of irrigation water takes into account the ratio of the sodium content to the sum of the calcium, magnesium, and sodium, the concentrations of all 3 constituents being expressed in terms of milligram equivalents per liter. In other words the per cent sodium is obtained by dividing the sum of the milligram equivalents of calcium, magnesium, and sodium into the figure for sodium and pointing off 2 places to the left,

$$\left(\frac{\text{Na} \times 100}{\text{Ca} + \text{Mg} + \text{Na}} \right)$$
. The significance of this characteristic of the salt complex in irrigation water lies in the results of reactions of base exchange on the

¹ Wilcox, L. V. Electrometric Titration of Boric Acid. Ind. and Eng. Chem. Analytical Edition, Vol. 4, p. 38, 1932.

physical properties of the soil. If the dissolved salts are preponderantly those of calcium and magnesium; i.e., if the per cent sodium is low, then the reactions of base exchange are in the direction of maintaining good tilth and good permeability in the soil. On the other hand if the percentage of sodium is high the consequent reactions of base exchange in the soil tend in the direction of the replacement of calcium and magnesium by sodium in the exchange complex with the result that the soil becomes deflocculated and impermeable to water. Experience indicates that if the sodium percentage is below 50 there is little danger of impairing seriously the physical condition of the soil. If it is above 60, such danger exists. The critical ratio is believed to lie between 50 and 60.

Carbonate and Bicarbonate: These two constituents are closely related and their relative concentrations may change with changes in the content of carbon dioxide in the water. In the detailed tables on which this report is based the concentrations of both constituents, where both occur, have been reported in terms of bicarbonate. In the discussion of water conditions in the several areas the concentrations of bicarbonate are not mentioned because it is thought that this constituent has less agricultural significance than those that are mentioned. Occasionally waters are found in which the carbonates and bicarbonates comprise almost the whole of the anion complex. If in such waters the percentage of sodium is low the water is probably safe for irrigation use, but if the percentage of sodium is high the water may be alkaline in reaction and will be potentially harmful to the physical condition of the soil. The quantity of bicarbonate in well waters is the least variable of any constituent determined in these analyses.

Chloride: This constituent is the one most easily and most frequently determined in water analysis. It is important because it is one to which many crops are sensitive. As a result of long experience, it has come to be accepted in the South Coastal Basin that in respect to chlorides, irrigation water is safe to use if it contains less than 142 ppm (4 milligram equivalents). As the chloride concentration approaches 355 ppm (10 milligram equivalents) water becomes increasingly unsafe for irrigation use and above that limit its use is hazardous and should be safeguarded by good drainage and copious applications to keep the root zone leached.

Sulphate: Information as to the limits of tolerance of this constituent of irrigation water is much less precise than that in respect to chloride. It is recognized that if sulphate is associated with an abundance of calcium it is not likely to become injurious to crops because the limit of solubility of calcium sulphate (2000 ppm) is below the limit of crop tolerance. On the other hand the sulphates of magnesium and sodium are highly soluble and in the absence of sufficient calcium to precipitate sulphate from the soil solution, this constituent might reach concentrations injurious to crop plants. For convenience

in classifying waters, concentration limits have been adopted for sulphate analogous to those used for chloride (in terms of milligram equivalents), i.e., those containing less than 4 milligram equivalents, 192 ppm, are classed as safe for irrigation use so far as this constituent is concerned, while those ranging up to 10 milligram equivalents, 480 ppm, are placed in the doubtful class, with those ranging above 480 ppm as possibly harmful. It must be emphasized that these limits are somewhat arbitrary and that the quality of water in respect to its sulphate content should be considered in conjunction with its calcium content or at least in conjunction with its percentage of sodium. If sulphate concentration and per cent sodium are high the water may be unsatisfactory for irrigation use.

Nitrate: This constituent rarely occurs in irrigation waters in harmful concentrations. It is reported for two reasons. Its occurrence has a certain geographiic or geological significance. Also, it is sometimes used as an indication of the contamination of water supplies as by sewage effluents. It is to be noted that nitrate occurs in relatively high concentrations in some of the underground waters of the South Coastal Basin. It is the writer's view that these high concentrations should not be generally interpreted as evidence of sewage contamination, or as the result of the accumulation of fertilizer residues from cultivated lands. Both these sources may have contributed to some extent to the present condition but it is highly probable that they are both subordinate to other and natural conditions not yet fully understood.

Calcium, Magnesium, and Sodium: In the detailed tables of analytical data on which this report is based these three constituents have been recorded separately. In the discussion of the irrigation waters in this report they have been taken together as the components of the ratio designated "per cent sodium." The separate determination and reporting of these three constituents affords the basis for a criterion that is useful in determining the sources of salinity as discussed later in the case of suspected sea-water intrusion along the ocean front of the Coastal Plain.

TABLE I. SURFACE WATERS IN SAN FERNANDO VALLEY

TABLE I. SURFACE WATERS IN SAN FERNANDO VALLEY—Continued

| Number | Location and description | Location number | Time of day | 1-hr-charge in second-feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|------------|--|-----------------|---|-------------------------------|---|--|--|--|--|--|---|--|--------------------------------------|--|--|----------------------------|
| | | | | | | | Specific electrical conductance ($K \times 10^4$ at 25°C) | Boron ppm | Per cent sodium | Nax100 Ca + Mg + Na | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| S5030-B-9 | Big Tujunga Creek, NE. of Sunland. Sampled at U. S. G. S. water stage recorder near center of Sec. 32, T. 3N., R. 13W., S. B. & M. (unsurveyed), 4.2 miles from Foothill Blvd., just above where road crosses creek at west boundary of State Game Refuge. Drainage area 106 square miles. Discharge measurements by U. S. G. S. | S5030 | ..... | 0.2 0.1 0.2 2.6 | 110 292 435 589 | 7/2/31 9/1/31 10/15/31 12/14/31 | 54.1 66.9 62.0 53.7 | 0.57 0.47 0.51 | 30 27 12 27 | *268 302 259 253 | 11 9 13 11 | 60 68 12 11 | 0 0 0 0 | 54 65 23 56 | 21 23 38 19 | 43 43 38 38 |
| S4913-C-7 | Big Tujunga Wash, W. of Sunland. Sampled at Mulholland St. (Stonehurst Ave.) Bridge, at Los Angeles County Flood Control District gaging station F C 20. Use: Supplied before and after storm. Discharge measurements by L. A. C. F. C. D. | S4913 | 6:45 a.m. 4:10 p.m. 3:00 p.m. 8:25 p.m. 5:15 p.m. | 90 600 600 500 75 | (e) (e) (e) (e) (e) | 2/8/32 2/8/32 2/8/32 2/16/32 2/22/32 | 39.3 41.9 43.8 45.4 | 0.22 0.13 0.18 0.21 0.26 | 180 189 267 219 235 | 180 189 267 219 244 | 6 7 7 7 7 | 30 35 28 28 27 | Tr. Tr. Tr. Tr. 0 | 35 35 46 46 47 | 13 13 15 15 17 | 24 24 28 28 28 |
| S3973 | Verdejito Canyon Creek, NE. of Glendale. Sampled under bridge at La Canada Blvd. crossing. Water rises below Colina Dr. Use: Diverted by city of Glendale to reservoir for municipal purposes. | S3973 | ..... | ..... | 346 433 600 725 809 1050 1544 1580 | 9/23/31 10/15/31 12/16/31 2/15/32 3/14/32 6/13/32 11/19/32 12/10/32 | 36.8 36.8 40.9 59.1 60.6 60.6 48.6 47.2 | 0.09 0.01 0.06 0.05 0.08 0.05 0.10 0.10 | 22 21 21 13 13 13 18 18 | 146 143 143 143 143 143 131 134 | 12 11 12 13 16 16 9 13 | 45 35 35 13 13 13 92 92 | 1 1 1 1 1 1 2 2 | 1 1 1 1 1 1 50 50 | 1 1 1 1 1 1 21 21 | |
| S4801 C-5 | Bull Canyon Creek, W. of San Fernando. 1,200 feet N. of Rinaldi St., 800 feet W. of Havenhurst Ave. Sampled 100 feet above Sulphur Spring. Use: Irrigation. | S4801 | ..... | ..... | 1106 | 6/23/32 | 120 | 0.52 | 32 | 381 | 73 | 211 | 18 | 110 | 40 | 93 |
| S4801A-C-5 | Sulphur Spring, W. of San Fernando. Spring on W. Bank of Bull Canyon Creek, 1,200 feet N. of Rinaldi St., 700 feet W. of Havenhurst Ave. Continuous flow, mixes with Bull Canyon water. Water has strong odor of H ₂ S. | S4801A | ..... | ..... | 1105 | 3/8/28 6/23/32 | 68.6 | 0.20 | 65 31 | 395 299 | 56 32 | 354 72 | Tr. 0 | 77 68 | 18 21 | 232 53 |
| S4801B-C-5 | J. H. Elerath. The drainage outlet, W. of San Fernando. Sample from outlet at lower end of Row 8 of owner's home ranch on N. E. of Havenhurst Ave. Use: Not used. Continuous flow throughout year. | S4801B | ..... | ..... | 1107 | (d) 3/8/28 6/23/32 | 85.6 | 0.39 | 42 38 | 437 381 | 46 66 | 277 43 | 4 1 | 89 74 | 22 26 | 104 83 |
| S4811-C-5 | J. H. Elerath. W. of San Fernando. Sampled at small lake 1,000 feet N. of Rinaldi St., 1,200 feet E. of Havenhurst Ave. Use: Irrigate 15-20 acres. Continuous flow throughout year. Water rises in canyon about 1,500 feet above lake. | S4811 | ..... | ..... | 1108 | (d) 2/21/30 6/23/32 | 47.9 | 0.18 | 60 43 | 583 154 | 108 60 | 385 0 | 1 0 | 122 37 | 38 11 | 312 48 |

^a Includes small equivalent quantity of Carbonate (CO₃).^b Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^c Information from W. H. Wood and F. B. Laverty.^d Analysis by Charles D. Samuels, Ph.D., Covina, California.^e Analysis by United States Department of Agriculture Rubidoux Laboratory, Riverside, California.

TABLE 2. IMPORTED WATERS SAN FERNANDO VALLEY

Continued

Constituents (parts per million)

| Location number | Date | Constituents (parts per million) | | | | | | | | | | | | |
|---|-------------|----------------------------------|--|-----------|--|---|-----------------------|------------------------------------|---|-----------------------|------------------------------------|------------------------------------|----------------|-------------|
| | | Discharge in second-feet | Specific electrical conductance at 25°C. | Boron ppm | Percent Sodium Na x 100 (Ca + Mg + Na) | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Magnesium (Mg) | Sodium (Na) |
| 55908-B-5, LOS ANGELES AQUEDUCT | 9/24/29 -- | 328 | 40.2 | 0.58 | Percent Sodium Na x 100 (Ca + Mg + Na) | 328 | 43.2 | 0.66 | 165 | 171 | 32 | 30 | 5 | b68 |
| Owner—City of Los Angeles, Location and description—Owens Valley water from aqueduct at San Fernando Power House above upper San Fernan- dino Reservoir, N.W. of San Fernando. | 10/1/29 -- | 308 | 43.2 | 0.66 | 0.66 | 42 | 165 | 23 | 31 | 30 | 13 | 143 | 13 | b43 |
| Ground elevation 1,265 from U. S. G. S. topog., by D. W. R. Use—Municipal and irrigation. | 10/8/29 -- | 228 | 43.6 | 0.60 | 0.60 | 42 | 165 | 23 | 31 | 32 | 13 | 141 | 13 | b41 |
| Source of information—Analysis by United States Department of Agriculture, Lubidoux Laboratory, Riverside, Calif- ornia. Discharge data from City of Los Angeles, Department of Water and Power. | 10/15/29 -- | 225 | 43.0 | 0.56 | 0.56 | 40 | 165 | 23 | 31 | 32 | 13 | 144 | 13 | b44 |
| | 10/22/29 -- | 216 | 43.4 | 0.64 | 0.64 | 42 | 162 | 27 | 31 | 32 | 12 | 148 | 12 | b48 |
| | 10/29/29 -- | 216 | 43.4 | 0.64 | 0.64 | 42 | 168 | 32 | 31 | 33 | 12 | 144 | 12 | b44 |
| | 11/5/29 -- | 271 | 45.6 | 0.73 | 0.73 | 44 | 168 | 32 | 31 | 33 | 12 | 144 | 12 | b44 |
| | 11/12/29 -- | 251 | 45.2 | 0.66 | 0.66 | 42 | 159 | 28 | 31 | 32 | 12 | 144 | 12 | b44 |
| | 11/19/29 -- | 231 | 44.4 | 0.66 | 0.66 | 49 | 162 | 36 | 31 | 33 | 10 | 144 | 10 | b53 |
| | 11/26/29 -- | 231 | 44.4 | 0.66 | 0.66 | 49 | 165 | 30 | 31 | 32 | 8 | 149 | 8 | b49 |
| | 12/3/29 -- | 231 | 45.0 | 0.67 | 0.67 | 48 | 165 | 30 | 31 | 32 | 9 | 144 | 9 | b44 |
| | 12/10/29 -- | 231 | 43.6 | 0.65 | 0.65 | 45 | 159 | 25 | 31 | 32 | 10 | 146 | 10 | b46 |
| | 12/17/29 -- | 231 | 43.5 | 0.60 | 0.60 | 46 | 171 | 25 | 31 | 32 | 10 | 146 | 10 | b46 |
| | 12/24/29 -- | 305 | 42.9 | 0.60 | 0.60 | 40 | 156 | 27 | 31 | 32 | 10 | 139 | 10 | b38 |
| | 12/31/29 -- | 232 | 41.7 | 0.64 | 0.64 | 39 | 159 | 25 | 31 | 32 | 10 | 139 | 10 | b38 |
| | 1/7/30 -- | 224 | 40.9 | 0.57 | 0.57 | 37 | 159 | 21 | 31 | 32 | 11 | 134 | 11 | b34 |
| | 1/14/30 -- | 231 | 41.2 | 0.76 | 0.76 | 43 | 159 | 25 | 31 | 32 | 11 | 140 | 11 | b40 |
| | 1/21/30 -- | 231 | 43.1 | 0.71 | 0.71 | 42 | 152 | 25 | 31 | 32 | 11 | 137 | 11 | b37 |
| | 1/28/30 -- | 238 | 44.2 | 0.73 | 0.73 | 43 | 165 | 20 | 31 | 32 | 11 | 142 | 11 | b42 |
| | 2/4/30 -- | 227 | 40.4 | 0.62 | 0.62 | 42 | 156 | 18 | 31 | 32 | 10 | 137 | 10 | b37 |
| | 2/11/30 -- | 235 | 41.8 | 0.60 | 0.60 | 41 | 159 | 18 | 31 | 32 | 10 | 141 | 10 | b41 |
| | 2/18/30 -- | 234 | 40.4 | 0.61 | 0.61 | 46 | 162 | 18 | 31 | 32 | 10 | 141 | 10 | b41 |
| | 2/25/30 -- | 234 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/1/30 -- | 232 | 40.9 | 0.61 | 0.61 | 46 | 161 | 18 | 31 | 32 | 10 | 141 | 10 | b41 |
| | 3/8/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/15/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/22/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/29/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/5/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/12/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/19/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/26/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/3/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/10/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/17/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/24/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/31/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 6/7/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 6/14/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 6/21/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 6/28/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 7/5/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 7/12/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 7/19/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 7/26/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 8/2/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 8/9/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 8/16/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 8/23/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 8/30/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 9/6/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 9/13/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 9/20/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 9/27/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 10/4/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 10/11/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 10/18/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 10/25/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 11/1/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 11/8/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 11/15/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 11/22/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 11/29/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 12/6/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 12/13/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 12/20/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 12/27/30 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 1/3/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 1/10/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 1/17/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 1/24/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 1/31/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 2/7/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 2/14/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 2/21/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 2/28/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/4/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/11/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/18/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 3/25/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/1/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/8/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/15/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/22/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 4/29/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/6/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/13/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/20/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 5/27/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 6/3/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | 29 | 31 | 32 | 10 | 138 | 10 | b38 |
| | 6/10/31 -- | 232 | 41.7 | 0.62 | 0.62 | 35 | 157 | | | | | | | |

TABLE 2. IMPORTED WATERS SAN FERNANDO VALLEY Continued

TABLE 2. IMPORTED WATERS SAN FERNANDO VALLEY - Continued

S4821-C-5. LOWER SAN FERNANDO RESERVOIR
Owner—City of Los Angeles.
Location and description—Sumped at outlet from reservoir. W. of San Fernando.
Ground elevation 1025, from U.S.G.S. topog., by D. W. R.
Use—Municipal and irrigation.
Source of information—Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
Location number S4821.

| Constituents (parts per million) | | | | | | | | | |
|----------------------------------|------------|------|-----------|------------------------------------|------------------------------------|--------------|----------------|-------------|-----|
| | | | Boron ppm | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| 2/17/31-** | 273 | 41.9 | 0.54 | 47 | 162 | 16 | 35 | 7 | 141 |
| | | 50.2 | 0.43 | 36 | 229 | 14 | 51 | 8 | 141 |
| | 244 | 41.3 | 0.43 | 47 | 162 | 18 | 41 | 8 | 143 |
| | 272 | 41.0 | 0.58 | 45 | 149 | 18 | 31 | 7 | 137 |
| | 347 | 41.8 | 0.54 | 53 | 151 | 21 | 27 | 8 | 135 |
| | 361 | 42.8 | 0.53 | 52 | 174 | 21 | 38 | 7 | 152 |
| | 380 | 43.2 | 0.60 | 53 | 177 | 21 | 36 | 7 | 151 |
| | 395 | 43.3 | 0.56 | 52 | 180 | 21 | 38 | 7 | 153 |
| | 387 | 44.2 | 0.58 | 55 | 183 | 23 | 38 | 8 | 154 |
| | 253 | 44.0 | 0.50 | 48 | 183 | 20 | 38 | 6 | 155 |
| | 227 | 44.1 | 0.59 | 54 | 162 | 21 | 40 | 7 | 145 |
| | 325 | 44.9 | 0.54 | 50 | 189 | 25 | 37 | 8 | 158 |
| | 269 | 44.0 | 0.62 | 50 | 186 | 18 | 29 | 7 | 148 |
| | 310 | 44.3 | 0.64 | 56 | 160 | 18 | 30 | 7 | 149 |
| | 326 | 45.2 | 0.60 | 56 | 189 | 27 | 35 | 7 | 159 |
| | 290 | 44.4 | 0.54 | 53 | 185 | 23 | 43 | 9 | 159 |
| | 384 | 44.6 | 0.65 | 53 | 189 | 21 | 27 | 6 | 155 |
| | 375 | 44.1 | 0.55 | 54 | 192 | 23 | 39 | 7 | 157 |
| | 386 | 43.7 | 0.56 | 51 | 183 | 25 | 39 | 8 | 156 |
| | 369 | 43.0 | 0.55 | 51 | 186 | 23 | 39 | 7 | 159 |
| | 400 | 41.9 | 0.58 | 54 | 177 | 21 | 36 | 8 | 150 |
| | 400 | 42.7 | 0.66 | 57 | 186 | 21 | 36 | 7 | 153 |
| | 400 | 38.8 | 0.65 | 44 | 146 | 16 | 35 | 0 | 157 |
| | 394 | 41.3 | 0.67 | 58 | 183 | 20 | 39 | 2 | 137 |
| | 405 | 40.0 | 0.60 | 54 | 165 | 20 | 32 | 2 | 158 |
| | 367 | 36.5 | 0.53 | 43 | 149 | 18 | 33 | 1 | 149 |
| | 140 | 40.7 | 0.46 | 44 | 162 | 20 | 18 | - | 136 |
| | 316 | 40.2 | 0.52 | 52 | 174 | 18 | 174 | - | 136 |
| | 368 | 37.4 | 0.53 | 52 | 157 | 20 | 157 | - | 136 |
| | 392 | 39.3 | 0.53 | 51 | 151 | 20 | 151 | - | 136 |
| | 300 | 44.6 | 0.81 | 52 | 186 | 27 | 207 | 30 | 136 |
| | 340 | 47.8 | 0.96 | 52 | 151 | 21 | 171 | 24 | 136 |
| | 240 | 51.9 | 1.24 | 57 | 144 | 41 | 244 | 41 | 136 |
| | 340 | 51.7 | 1.44 | 57 | 144 | 41 | 223 | 23 | 136 |
| | 400 | 51.3 | 1.25 | 57 | 144 | 41 | 177 | 28 | 136 |
| | 400 | 40.7 | 0.98 | 52 | 144 | 41 | 174 | 26 | 136 |
| | 340 | 35.9 | 0.74 | 52 | 142 | 18 | 146 | 18 | 136 |
| | 400 | 29.6 | 0.64 | 52 | 140 | 16 | 140 | 18 | 136 |
| | 400 | 31.8 | 0.54 | 52 | 140 | 18 | 140 | 220 | 136 |
| | 1/1, 1/322 | 34.2 | 0.56 | 52 | 140 | 18 | 140 | 220 | 136 |

^a Includes small equivalent quantity of Carbonate (CO_3^{2-}).
^b Alkaline bases estimated by difference between sum of acid radicals and sum of Calcium and Magnesium in milligram.

equivalents and calculated to equivalent quantity of Sodium. Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium.

TABLE 3. WELLS IN SAN FERNANDO VALLEY

| Well number | Location and description | Elevation of ground | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | | |
|-------------|--|---------------------|-------------------|-------|----------------------------------|---|---------------------------------|----------------------------|--|-----------------------------|----------------------------------|------------------------------|----------------------|--------------------|------------------------|-------------|
| | | | | | Total depth of well in feet | Specific electrical conductance ($K \times 10^4$ at $25^\circ C$) | Boron ppm | Percent sodium | Bicarbonate $Na \times 100$ $(Ca+Mg)/Na$ | Chloride radicle (Cl^-) | Sulphate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| A-1-B-4 | Cascade Ranch, W. of San Fernando; 1,400 feet NE. of Balboa Ave. on N. side of Bee Canyon Creek, W. of Upper San Fernando Reservoir. Use: Capped, not used. Casing: 16 inches. Gravel 50'-72'; 190' 1:14. Sample 1 from first gravel stratum. Sample 2 from second gravel stratum before perforating first gravel. Sample 3 after well had been pumped, and is composite of two gravel strata. | 5,899 | 1,280 | *500 | e1 e2 e3 | 11/12/31 11/12/31 11/30/31 | 0.50 0.47 0.55 | 0.50 0.47 0.55 | 26 23 18 | 228 288 342 | 39 42 40 | 1000 304 687 | 218 208 200 | 97 88 88 | 4158 4119 d 89 | |
| A-2-B-5 | G. Henry Stetson (Sombrero Ranch), Well 2, NW. of San Fernando; 100 feet NW. of Olden Ave., produced N., 1,000 feet NE. of Remsen St., 100 feet N. of A-2a-B-5. Use: Irrigation and domestic. Casing: 18 inches. | 5,937 | 1,425 | x300 | 354 1120 | 9/25/31 6/24/32 | 98.9 110 | 0.57 0.42 | 13 13 | 302 305 | 27 32 | 240 304 | 22 23 | 108 125 | 55 60 | 35 38 |
| A-2a-B-5 | G. Henry Stetson (Sombrero Ranch), Well 1, NW. of San Fernando; 100 feet NW. of Olden Ave., produced N., 1,000 feet NE. of Remsen St., Use: Irrigation and domestic. Casing: 14 inches. | 5,937A | 1,422 | x255 | 355 1121 | 9/25/31 6/24/32 | 82.0 89.6 | 0.46 0.26 | 13 13 | 225 238 | 34 32 | 186 186 | 27 27 | 97 97 | 45 | 29 |
| A-3b-B-6 | City of San Fernando, Well 4, San Fernando; 300 feet NW. of Hubbard Ave., 30 feet NE. of Mansfield St. Use: Municipal. Casing: 18 inches. Perforated 145' 238'; 291' 255'; 334' 352'; 361' 387. | 5,969 | 1,244 | *x481 | (f) 1122 | 7/17/31 6/23/32 | 42.6 | 0.07 | 25 | 210 204 | 15 12 | b30 28 | 6 | 46 | 12 | 25 |
| A-3e-B-6 | City of San Fernando, Well 2, San Fernando; 500 feet SE. of Sarey Ave., 50 feet SW. of Borden St. Use: Municipal. Gravel 100'-130', 134'-150', 156'-250. | 5,969A | 1,221 | *x250 | (f) | 7/17/31 | ----- | ----- | ----- | 210 | 19 | b17 | ----- | ----- | ----- | ----- |
| A-4-B-6 | Ford-Craig Ranch, Pit 1, N. of San Fernando; 50 feet NE. of Garrett St., 45 feet SE. of Hubbard Ave. Use: Irrigation. Inter-connected to Pit 2. | 5,988 | 1,420 | x400 | 1123 | 6/24/32 | 69.4 | 0.10 | 18 | 296 | 27 | 70 | 23 | 82 | 23 | 34 |
| A-4g-B-6 | Ford-Craig Ranch, NE. of San Fernando; 50 feet NW. of McClay St., 0.70 mile NE. of Foothill Blvd., W. of Pacoma Creek at foot of bluff. Use: Irrigation. | 5,989 | 1,250 | ----- | 1408 | 9/16/32 | 43.9 | 0.07 | 15 | *189 | 7 | 62 | Tr. | 50 | 17 | 16 |
| A-10b-D-3 | W. M. Beckstead, N. of Owensmouth; 50 feet S. of Roscoe Ave., 0.15 mile W. of De Soto Ave. Use: Irrigation. Gravel 28'-45'; 67'-91' 283'-299. | 4708A | 833 | *x320 | 1100 | 6/22/32 | 99.2 | 0.23 | 23 | 308 | 55 | 176 | 18 | 112 | 33 | 58 |
| A-11b-D-3 | Wm. Mulholland, Well 1, SE. of Chatsworth; 0.5 mile N. of Nordhoff St., 20 feet W. of Corbin Ave., 20 feet S. of Plummer St. Use: Irrigation. Casing: 16 inches. Perforated 168'-180'; 233'-245. | 4735B | 871 | *x308 | 1101 | 9/25/31 6/22/32 | 99.2 98.7 | 0.30 0.27 | 18 16 | 284 278 | 32 28 | 242 228 | 27 31 | 127 129 | 34 33 | 47 39 |
| A-13a-D-3 | I. L. Hadley, SW. of N. Los Angeles; 25 feet S. of Strathearn St., 375 feet E. of Corbin Ave. Use: Irrigation. Casing: 8-inch rotary hole, reamed to 30 inches. Gravel 90'-106'; 118'-128'; 142'-148'; 160', 166'. | 4738 | 782 | *x290 | 1102 | 6/22/32 | 118 | 0.31 | 18 | 287 | 39 | 350 | 11 | 154 | 41 | 55 |
| A-17-C-4 | Sunshine Ranch, W. of San Fernando; 2,900 feet N. of Rinaldi St., 2100 feet W. of Zelzah Ave., extended in pump house 300 feet W. of creek. Use: Irrigation and domestic. Casing: 20 inches. | 4771 | 1,236 | x432 | 1103 | 6/23/32 | 97.6 | 0.34 | 13 | 339 | 82 | 123 | 0 | 154 | 16 | 31 |
| A-20a-C-5 | J. H. Elerath, W. of San Fernando; 700 feet E. of Havenhurst Ave., 1,800 feet N. of Rinaldi St. Use: Irrigation. Casing: 5' x 5', 1/2" dur well. Pumps dry in four hours; refills in twenty-four hours. | 4801 | 1,070 | 30 | (g) 1104 | 3/8/38 6/23/32 | ----- ----- | 1.77 1.77 | 34 44 | 68 46 | 607 1083 | 54 0 | 2 0 | 184 255 | 44 71 | d152 315 |
| A-24-B-5 | R. Errachuo, NW. of San Fernando; 140 feet SW. of Monticello St., 0.3 mile SE. of Bledsoe Ave., 0.27 mile W. of San Fernando, Kuhl. Use: Irrigation and domestic. Casing: 10 inches. Perforated to 131. | 4830 | 1,155 | *x131 | 1109 | 6/24/32 | 67.1 | 0.26 | 31 | 262 | 32 | 80 | 11 | 65 | 20 | 52 |
| A-24a-C-5 | General Petroleum Co., NW. of San Fernando; 600 feet SW. of San Fernando Road, 0.3 mile NW. of Hubbard Ave., 30 feet NW. of corrugated iron building. Use: Industrial. Casing: 12 inches. Gravel 122'-133. | 4840 | 1,120 | *x190 | (h) (i) 1111 | 5/7/38 5/19/38 12/12/34 6/24/32 | ----- ----- ----- 43.2 | ----- ----- 33 24 | 22 34 214 207 | 56 34 6 11 | ----- ----- 37 38 | ----- ----- 2 2 | 25 58 46 48 | 11 0 8 13 | d14 d34 25 25 | |
| A-26a-D-5 | Frank Spichtig, Sepulveda; 30 feet E. of Noble Ave., 800 feet S. of Parthenia St. Use: Irrigation. Casing: 14 inches. Gravel 50'-90', 188'-203'; 231'-266'; 284'-303'; 323'-342'; 344'-383. | 4837 | 812 | *x385 | 358 1110 | 9/25/31 6/24/32 | 145 158 | 0.28 0.35 | 26 271 | 36 271 | 32 26 | 532 601 | 19 18 | 169 188 | 46 52 | 101 109 |

TABLE 3. WELLS IN SAN FERNANDO VALLEY—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituent (parts per million) | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|---------|---|-----------|----------------|-------------------------------------|--|---|-----------------------------|-------------------------------|---------------------------|
| | | | | | | | Specific electrical conductance (K ¹⁰ at 25°C.) | Boron ppm | Percent sodium | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Calcium (Ca ²⁺) | Magnesium (Mg ²⁺) | Sodium (Na ⁺) |
| A-28b-B-6 | City of San Fernando, Well 1, San Fernando; 300 feet SW, of Hubbard Ave., 1,000 feet NE, of 4th St. Use: Municipal. Casing: 15 inches. (1) Mean of 13 samples from 7/6/23 to 9/25/28, inclusive; (2) mean of 12 samples from 10/2/28 to 12/26/28, inclusive; (3) mean of 12 samples from 1/2/29 to 3/26/29, inclusive; (4) mean of 15 samples from 4/1/29 to 7/23/29, inclusive. | 4850B | 1,130 | x170 | 11 | Mean | 52.3 | 0.30 | 27 | 241 | 64 | ----- | 81 | 35 | |
| | | | | | 12 | Mean | 53.1 | 0.33 | 30 | 231 | 61 | ----- | 77 | 38 | |
| | | | | | 13 | Mean | 55.7 | 0.30 | 18 | 230 | 16 | ----- | 54 | 21 | |
| | | | | | 14 | Mean | 54.5 | 0.26 | 21 | 228 | 16 | ----- | 55 | 25 | |
| | | | | | (1) | 7/17/31 | 53.6 | 0.35 | 23 | 244 | 18 | ----- | 55 | ----- | |
| | | | | | 336 | 9/25/31 | 53.6 | 0.24 | 23 | 241 | 16 | ----- | 59 | ----- | |
| | | | | | 1112 | 6/24/32 | 53.5 | 0.24 | 23 | 238 | 16 | ----- | 58 | 23 | |
| | | | | | | | | | | 53 | 6 | 57 | 20 | 32 | |
| | | | | | | | | | | | | | 20 | 30 | |
| A-21a-D-6 | Los Angeles Creamery, S. of San Fernando; 300 feet SW, of Woodman (Payton) Ave., 100 feet SE, of Bradfield Ave., extended Use: Irrigation and industrial. Casing: 20 inches. | 4867 | 824 | x850 | 1113 | Mean | 33.9 | 9/25/31 | 49.6 | 0.28 | 19 | 250 | 9 | 50 | |
| | | | | | 1113 | 6/24/32 | 49.0 | 0.06 | 18 | 244 | 9 | 39 | 55 | 21 | |
| A-41a-C-7 | Wildwood Trout Resort, W. of Sunland; 650 feet E. of Orcus Ave., 795 feet S. of Tujunga Valley Ave. (Foothill Blvd.). Use: Trout lakes and domestic. Casing: 20 inches. | 4932 | 1,077 | x147 | 1114 | 333 | 9/23/31 | 61.6 | 0.20 | 20 | 241 | 14 | 101 | 7 | 24 |
| | | | | | 1114 | 6/24/32 | 67.2 | 0.15 | 20 | 238 | 16 | 128 | 4 | 22 | |
| A-44a-C-8 | Wm. Taylor, W. of Sunland; 225 feet NE, of N. end of Tujunga Valley Ave. (Foothill Blvd.) main bridge over Big Tujunga Wash. Use: Domestic and irrigation. Casing: 12 inches. Gravel 43-70; 80-88. | 4962 | 1,193 | *x112 | 1115 | 312 | 9/23/31 | 105 | 0.34 | 17 | 256 | 16 | 350 | 1 | 47 |
| | | | | | 1115 | 6/23/32 | 66.6 | 0.20 | 25 | 235 | 11 | 141 | 1 | 41 | |
| A-47-C-8 | Judge Crail, N. of Sunland; W. of Ora Vista Ave., extended, 20 feet from cliff on N. side of Big Tujunga Wash. Use: Domestic and irrigation. | 4982 | 1,300 | *x480 | 1116 | 6/24/32 | 71.6 | 0.59 | 47 | 342 | 16 | 72 | Tr. | 26 | |
| | | | | | 1116 | 7/24/31 | ----- | ----- | ----- | 195 | 16 | b10 | 40 | 84 | |
| A-48f-C-8 | American States Water Service Co., Sunland; 25 feet S. of Fenwick St., 75 feet E. of McVine Ave., Use: Municipal. Casing: 16 inches. Perforated 74-11½-12; 14½-16½; 230-236. | 4983F | 1,400 | *x290 | (1) | 7/24/31 | ----- | ----- | ----- | 195 | 16 | ----- | ----- | ----- | |
| A-49a-C-8 | American States Water Service Co., Sunland; 250 feet S. of Foothill Blvd. (Michigan Ave.), 50 feet E. of Woodward Ave. Use: Municipal. Casing: 14 inches. (Gravel 10½-14½; 20½-23½; 29½; 32½-32¾). | 4994 | 1,460 | *x350 | 1117 | 311 | 9/23/31 | 32.7 | 0.06 | 22 | 180 | 11 | 7 | 2 | 20 |
| | | | | | 1117 | 6/24/32 | 32.5 | 0.01 | 26 | 177 | 7 | 3 | 4 | 22 | |
| A-50b-D-9 | Highway Highlands Water Co., SE, of Sunland; 75 feet S. of Foothill Blvd., 300 feet NW, of Central Ave. Use: Domestic. Casing: 12 inches. | 5036 | 1,750 | *x300 | 1118 | 340 | 9/23/31 | 33.2 | 0.02 | 23 | 171 | 9 | 15 | 4 | 19 |
| | | | | | 1118 | 6/24/32 | 33.2 | 0.04 | 20 | 174 | 6 | 16 | 3 | 15 | |
| A-53a-D-10 | T. J. Lawrence, La Crescenta; 75 feet W. of Briggs Ave., 0.90 miles N. of Foothill Blvd. Use: Irrigation and domestic. Casing: 12 inches. | 5066 | 1,915 | *x350 | 1119 | 339 | 9/23/31 | 37.1 | 0.01 | 22 | 180 | 11 | 26 | 6 | 21 |
| | | | | | 1119 | 6/24/32 | 37.9 | 0.05 | 22 | 177 | 9 | 28 | 4 | 21 | |
| A-55a-D-9 | City of Glendale, Starr Well 2, S. of La Crescenta; 60 feet W. of La Crescenta Ave., 1,890 feet S. of Honolulu Ave. Use: Municipal. Casing: 16 inches. | 5069C | 1,173 | ----- | 338 | 9/23/31 | 34.8 | 0.04 | 25 | 171 | 12 | 13 | 6 | 17 | |
| | | | | | 338 | 6/14/32 | 77.4 | 0.45 | 56 | 421 | 55 | 2 | 0 | 22 | |
| A-56b-E-2 | George Platt, Well 1, SW. of Owensmouth; 210 feet S. of Victory Blvd., 25 feet W. of Burquist Ave. Use: Irrigation. Casing: 12 inches. Open bottom casing. | 3561E | 843 | *x130 | 1064 | 353 | 9/24/31 | 136 | 0.37 | 26 | 296 | 62 | 392 | 22 | 92 |
| | | | | | 1064 | 6/15/32 | 132 | 0.35 | 24 | 296 | 62 | 383 | 25 | 83 | |
| A-57-F-1 | Calabasas School District, Calabasas; 250 feet S. of Ventura Blvd., 1.35 miles SW. of Los Angeles city limits, 150 feet SE, of school building. Use: Domestic. Casing: 12 inches. | 3544 | 1,080 | 450 | 1061 | 353 | 6/14/32 | 77.4 | 0.45 | 56 | 421 | 55 | 2 | 0 | 21 |
| | | | | | 1061 | 1062 | 6/14/32 | 191 | 1.84 | 70 | 528 | 80 | 460 | 11 | 111 |
| A-56b-E-2 | Anton Weber, Calabasas; 80 feet N. of Ventura Blvd., 1.22 miles SW. of Los Angeles city limits, 150 feet E. of Calabasas Hotel. ("sw." Domestic. Casing: 4 x 4, dug well.) | 3544A | 1,050 | 40 | 1062 | 353 | 6/14/32 | 452 | 1.98 | 91 | a1095 | 108 | 1392 | 50 | 27 |
| | | | | | 1062 | 1063 | 6/14/32 | 217 | 0.58 | 40 | 442 | 71 | 746 | 4 | 1020 |
| A-57b-F-2 | Industrial Fuel Supply Co., Calabasas; 30 feet S. of Ventura Blvd., 0.42 mile W. of Los Angeles city limits. Use: Domestic. Casing: 10 inches. Perforated in bottom 20 feet only; surface water concreted off. | 3554 | 945 | 353 | 1063 | 353 | 6/14/32 | 452 | 1.98 | 91 | a1095 | 108 | 1392 | 50 | 40 |
| | | | | | 1063 | 1065 | 6/14/32 | 217 | 0.58 | 40 | 442 | 71 | 746 | 4 | 27 |
| A-57c-F-2 | Joe Dale, Calabasas; 135 feet S. of Ventura Blvd., 300 feet W. of Los Angeles city limits. ("sw." Irrigation. Casing: 5 inches, in bottom of 4 x 4 pit, 34 feet deep.) | 3564A | 932 | 75 | 1065 | 353 | 6/14/32 | 452 | 1.98 | 91 | a1095 | 108 | 1392 | 50 | 40 |
| | | | | | 1065 | 1066 | 6/14/32 | 217 | 0.58 | 40 | 442 | 71 | 746 | 4 | 27 |
| A-58d-E-3 | Brant Ranch, S. of Owensmouth; 0.25 miles S. of Van Owen St., 0.30 mile E. of Topanga Canyon Road in line of Owensmouth Ave., extended S. Use: Irrigation. Casing: 12 inches. | 3590 | 798 | *x246 | 1069 | 353 | 6/14/32 | 152 | 0.29 | 23 | 290 | 38 | 571 | 6 | 68 |
| | | | | | 1069 | 1068 | 6/14/32 | 278 | 0.34 | 32 | 516 | 73 | 1164 | 6 | 91 |
| A-59a-F-2 | Park Moderne, S. of Calabasas; 30 feet E. of El Canyon Road (Old Topanga Canyon Road), 30 feet N. of Dry Canyon Creek, 0.25 miles S. of Los Angeles city limits. Use: Domestic and irrigation. Casing: 10 inches. | 3575 | 980 | ----- | 1068 | 353 | 6/14/32 | 278 | 0.34 | 32 | 516 | 73 | 1164 | 6 | 104 |
| | | | | | 1068 | 1068 | 6/14/32 | 278 | 0.34 | 32 | 516 | 73 | 1164 | 6 | 233 |

TABLE 3. WELLS IN SAN FERNANDO VALLEY—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|---------|----------------------------------|--|-----------|-------------------------------------|--|---|-----|-----|----|-----|
| | | | | | | | Boron ppm | Specific electrical conductance (K x 10 ⁻³ at 25°C) | Boron ppm | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | | | | |
| A-62-E-3 | B. Valicella, E. of Owensmouth; 125 feet S. of Corbin Ave., 0.23 miles S. of Sherman Way. Use: Irrigation. Casing: 12 inches. Perforated 54-68. | 3630 | 753 | *x182 | 1095 | 6/22/32 | 163 | 0.37 | 25 | 302 | 55 | 565 | 8 | 187 | 55 | 106 |
| A-62a-E-3 | Hugo Carlson, SW. of N. Los Angeles; 25 feet E. of Mason Ave., 100 feet S. of Van Owen St. Use: Domestic. Casing: 8 inches. U. S. G. S. No. C-3. | 3620 | 765 | x33 | 1070 | 6/15/32 | 123 | 0.26 | 20 | 342 | 39 | 307 | 6 | 134 | 53 | 63 |
| A-67-E-4 | Tarzana Mineral Water. W. of Encino; 250 feet E. of Lindley Ave., 440 feet N. of Ventura Blvd. Use: Bottled mineral water. Casing: 20 inches. Perforated 735-785. | 3673 | 800 | *2100 | 1066 | 6/15/32 | 245 | 0.41 | 59 | 430 | 130 | 798 | Tr. | 97 | 72 | 360 |
| A-67a-E-4 | El Caballero Estates. W. of Encino; 200 feet W. of Enfield Ave., on S. line of Valley Vista Blvd., 1,100 feet E. of Lindley Ave., 2,800 feet S. of Ventura Blvd. Use: Bottled mineral water. Casing: 8 inches and 5 inches. Water coming from 900-foot level between 8-inch and 5-inch casings. | 3674 | 835 | 1500 | (b) | 7/23/31 | 232 | 0.48 | 81 | 398 | 72 | 728 | 0 | 43 | 28 | 444 |
| A-70-E-5 | Frank P. Ghiglino, W. of Van Nuys; 40 feet S. of Victory Blvd., 900 feet W. of Van Nuys; 40 feet S. of Victory Blvd., 16 inches. Perforated 203-222. | 3701 | 720 | *x283 | 1071 | 6/15/32 | 153 | 0.39 | 25 | 330 | 57 | 493 | 44 | 184 | 57 | 107 |
| A-70b-E-5 | Art. Robinson, Well 1, W. of Van Nuys; 20 feet S. of Oxnard Ave., 40 feet E. of Havenhurst Ave. Use: Irrigation. Casing: 14 inches. Perforated 53-64-170-188-209-215-329-336; 339-353. Water has strong odor of H ₂ S. | 3701A | 705 | *x362 | 352 | 9/24/31 | 126 | 1.12 | 56 | 336 | 80 | 268 | 6 | 70 | 29 | 173 |
| A-70c-E-5 | Art. Robinson, Well 2, W. of Van Nuys; 50 feet S. of Oxnard Ave., 75 feet E. of Havenhurst Ave. Use: Irrigation. Casing: 12 inches. Perforated 54-68. | 3701B | 705 | *x80 | 1073 | 6/15/32 | 224 | 0.47 | 23 | 278 | 64 | 1015 | 23 | 291 | 85 | 151 |
| A-71a-E-5 | G. Rizzo, N. of Encino; 55 feet N. of Magnolia Blvd., 0.20 miles E. of Balboa Ave. Use: Irrigation. Casing: 14 inches. | 3703 | 723 | (x) | 1074 | 6/15/32 | 80.9 | 0.10 | 16 | 324 | 34 | 110 | 18 | 87 | 38 | 32 |
| A-73a-E-5 | A. Nicholls, SW. of Van Nuys; 15 feet S. of Oxnard St., 15 feet W. of Sepulveda Blvd. Use: Irrigation. Perforated 54-66; 159-180. | 3732A | 793 | *x190 | 351 | 9/24/31 | 150 | 0.25 | 27 | 244 | 73 | 516 | 12 | 159 | 55 | 104 |
| A-73c-E-5 | Robert Schmidt, SW. of Van Nuys; 120 feet S. of Oxnard St., 0.2 miles E. of Sepulveda Blvd. Use: Domestic. Casing: 6 inches. Perforated 44-51. | 3732C | 697 | *x58 | 1075 | 6/15/32 | 104 | 0.48 | 38 | 357 | 34 | 202 | 23 | 97 | 27 | 99 |
| A-76d-E-6 | W. P. Whitsett, SE. of Van Nuys; 0.10 miles N. of Oxnard St., 0.10 miles W. of Fulton Ave. Use: Irrigation. Casing: 14 inches. Perforated 22.5-24.5-26.5-32.5-34.0-40.0-41.3. | 3771A | 691 | *x424 | 1076 | 6/15/32 | 116 | 0.17 | 26 | 235 | 48 | 365 | 4 | 119 | 43 | 75 |
| A-77e-F-6 | McKinley School for Boys, SE. of Van Nuys; 1,300 feet W. of Woodman Ave., 1,300 feet N. of Riverside Drive. Use: Irrigation. Casing: 20 inches. Perforated below 20 feet from ground surface. | 3763B | 650 | 285 | 1096 | 6/22/32 | 151 | 2.45 | 82 | 418 | 142 | 219 | 0 | 28 | 18 | 294 |
| A-78f-E-6 | W. F. Ziegler, E. of Van Nuys; 15 feet S. of Victory Blvd., 0.24 miles W. of Whittell Ave. Use: Irrigation. Casing: 12 inches. | 3791A | 700 | ----- | 1077 | 6/14/32 | 150 | 0.22 | 26 | 223 | 39 | 598 | 15 | 178 | 49 | 103 |
| A-80d-E-7 | City of Los Angeles, Well 13, NW. of North Hollywood; 60 feet S. of Van Owen St., 135 feet W. of Beck Ave. Use: Municipal. N. of Van Owen St., 0.01 feet L. of Hinds Ave. (see: Municipal). | 3810A | 712 | ----- | 348 | 9/24/31 | 33.1 | 0.15 | 25 | 177 | 7 | 29 | 2 | 38 | 12 | 22 |
| A-80e-E-7 | City of Los Angeles, Well 5, NW. of North Hollywood; 255 feet N. of Van Owen St., 0.01 feet L. of Hinds Ave. (see: Municipal). | 3810B | 720 | ----- | 1097 | 6/22/32 | 35.8 | 0.14 | 22 | 174 | 9 | 27 | 2 | 41 | 12 | 20 |
| A-80h-E-7 | O. L. Anderson, NW. of North Hollywood; 125 feet N. of Erwin St., 500 feet W. of Lankershim Blvd. Use: Domestic. | 3811A | 679 | 96 | 1152 | 7/19/32 | 43.1 | 0.07 | 17 | 186 | 18 | 35 | 7 | 55 | 12 | 18 |
| A-81k-E-7 | North Hollywood Park Dept. W. of North Hollywood; 150 feet E. of Beck Ave., 175 feet S. of Chandler Blvd. Use: Irrigation and domestic. (see: Traveled 2 mi. 117-130). | 3813A | 635 | *132 | 349 | 9/24/31 | 122 | 0.24 | 31 | 226 | 44 | 408 | 9 | 123 | 35 | 96 |
| A-84f-E-7 | Polar Water Co., North Hollywood; 100 feet S. of Burbank Blvd., 0.15 miles W. of Calumetta Blvd. Use: Bottled water. | 3832D | 618 | ----- | 1153 | 7/19/32 | 43.1 | 0.08 | 21 | 189 | 12 | 30 | 11 | 53 | 12 | 23 |

TABLE 3. WELLS IN SAN FERNANDO VALLEY Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|--------------------|---|--------------|--|---|-----------------------|--------------|------------------------------------|------------------------------------|----------------|-------------|
| | | | | | | | Specific dielectric conductance (K x 10 ³ at 25°C) | Boron (ppm) | Percent sodium Na x 100 Ca + Mg + Na | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl) | Calcium (Ca) | Nitrate-radicle (NO ₃) | Sulfate radicle (SO ₄) | Magnesium (Mg) | Sodium (Na) |
| A-86d-E-7 | City of Burbank; New Well 6. Burbank; 55 feet S. of Jeffries Ave., 90 feet E. of Maple St., 50 feet E. of Old Well 6. Use: Municipal. Casing: 20 inches. Perforated: 135-186; 203-220; 269-285; 310-335; 380-394; 412-420; 445-453. | 3841C | 632 | *x472 | (1) | 4/28/31 6/15/32 | 43.7 | 0.14 | 22 | 214 204 | 14 | 135 51 | 2 | 49 | 15 | 23 |
| A-87-E-7 | City of Burbank; Well 5. Burbank; 200 feet S. of Chatsworth Branch of S. P. R. R., 100 feet E. of Rose St. Use: Municipal. Gravel 38-51. | 3843 | 590 | (x) | (1) | 4/28/31 | ..... | ..... | 189 | 12 | 21 | ..... | ..... | ..... | ..... | ..... |
| A-88-F-8 | F. G. Locke, SW ¹ , of Burbank; 40 feet W. of Hollywood Way, 50 feet S. of Rowland Ave. Use: Domestic. Casing: 8 inches. Gravel 38-51. | 3855 | 546 | *x51 | 350 | 9/24/31 6/15/32 | 57.3 58.2 | 0.11 0.09 | 19 18 | 232 235 | 16 | 61 16 | 22 31 | 72 75 | 17 | 27 |
| A-88g-F-7 | Lakeside Golf Club, S. of North Hollywood; 200 feet W. of Valley Spring Lane, 35 feet W. of Arcola Ave., extended. Use: Irrigation. Casing: 16 inches. Perforated 30-127. | 3845A | 560 | *140 | 1154 | 7/19/32 | 110 | 0.19 | 27 | 274 | 34 | 310 | 27 | 127 | 35 | 80 |
| A-93-E-8 | City of Burbank, Well 1. Burbank; 45 feet W. of Lake St., 93 feet S. of Magnolia Blvd. Use: Municipal. Casing: 12 inches. Perforated 62-97; 126-140; 150-164. | 3882B | 560 | (x) | (1) | 4/28/31 | ..... | ..... | 207 | 11 | 123 | ..... | ..... | ..... | ..... | ..... |
| A-93d-E-8 | City of Burbank, Well 2. Burbank; 50 feet W. of Lake St., 143 feet S. of Magnolia Blvd. Use: Municipal. Casing: 18 inches. | 3882D | 560 | 162 | (1) | 4/28/31 | ..... | ..... | 214 | 12 | 140 | ..... | ..... | ..... | ..... | ..... |
| A-93e-E-8 | City of Burbank, Well 3. Burbank; 25 feet E. of Lake St., 135 feet S. of Magnolia Blvd. Use: Municipal. Casing: 16 inches. Perforated 62-97; 126-140; 150-164. | 3882E | 560 | 169 | 347 | 4/28/31 9/24/31 | 44.4 44.4 | 0.12 | 19 | 214 220 | 13 14 | 120 25 | 9 | 51 | 16 | 21 |
| A-93f-E-8 | City of Burbank, Well 4. Burbank; 33 feet E. of Lake St., 200 feet S. of Alameda Ave. Use: Irrigation. Casing: 16 inches. | 3882F | 560 | 228 | (1) | 4/28/31 | ..... | ..... | 232 | 15 | 120 | ..... | ..... | ..... | ..... | ..... |
| A-93g-E-8 | J. S. Harris, Burbank; 15 feet E. of Mariposa St., 700 feet N. of Alameda Ave. Use: Irrigation. Casing: 16 inches. Perforated 40-160; 180-261. | 3883 | 525 | x90 | 1098 | 6/22/32 | 55.0 | 0.08 | 18 | 226 | 28 | 24 | 23 | 64 | 17 | 24 |
| A-95b-F-9 | City of Glendale, Grandview Well 1. Glendale; 50 feet SW of San Fernando Rond; 200 feet NW. of Grand View Ave. Use: Municipal. Casing: 16 inches. Gravel 79-88; 178-189; 250-283; 380-412; 433-500. | 3913 | 469 | *x500 | 345 | 9/23/31 6/15/32 | 53.4 51.7 | 0.21 0.21 | 33 | 210 210 | 36 28 | 43 | 1 | 51 | 12 | 41 |
| A-96a-F-9 | City of Los Angeles Griffith Park Well 1. E. of Glendale; 210 feet S. of Riverside Dr.; 450 feet S. of Los Angeles River, 2.82 miles N.E. along Riverside Dr. from Los Feliz Road. Use: Irrigation. Casing: 20 inches. Perforated 40-160; 180-261. | 3914 | 452 | *294 | 1086 | 6/13/32 | 65.6 | 0.25 | 29 | 217 | 25 | 126 | 8 | 67 | 18 | 46 |
| A-96d-F-9 | City of Glendale Well 12. Glendale; 150 feet NE. of Lake St., 40 feet SE. of Pula Ave. Use: Municipal. Casing: 18 inches. Perforated 135-184; 188-206; 216-402; 414-409. Slight H.S. odor. | 3914C | 467 | *x534 | 1034 | 9/23/31 6/13/32 | 49.0 52.0 | 0.14 0.20 | 30 34 | 217 217 | 18 25 | 54 58 | 4 | 49 | 17 | 37 |
| A-96e-F-9 | City of Los Angeles, Griffith Park Well 2. E. of Glendale; 800 feet W. of Riverside Dr.; 1,100 feet W. of Los Angeles River, 1.95 miles N.E. along Riverside Dr. from Los Feliz Road. 1 sec. Irrigation. Casing: 16 inches. Perforated 22-73; 80-88. | 3915 | 446 | *151 | 1085 | 6/13/32 | 81.9 | 0.33 | 29 | 235 | 34 | 173 | 11 | 87 | 23 | 58 |
| A-97L-F-9 | Forest Lawn Cemetery Assn., Well 2. S. of Glendale; 17 feet E. of Highland Ave., 216 feet N. of San Fernando Road. Use: Irrigation. Casing: 16 inches. Gravel 76-121; 160-173. | 3947A | 438 | *170 | 1082 | 6/13/32 | 46.3 | 0.09 | 25 | 210 | 21 | 24 | 11 | 42 | 19 | 29 |
| A-98-E-10 | City of Glendale, Glorieta Well 4. NE. of Glendale; 150 feet S. of Ramona Ave., 240 feet E. of Hermosa Dr. Use: Municipal. Casing: 16 inches. Gravel 90-99; 108-133; 165-185. | 3961 | 965 | *x189 | 1083 | 9/23/31 6/13/32 | 30.9 31.2 | 0.06 0.00 | 24 21 | 155 153 | 9 7 | 6 7 | 29 27 | 13 13 | 15 | 15 |

^a Log in files of Division of Water Resources.^b Water level in files of Division of Water Resources.^c Includes small equivalent quantity of Carbon dioxide (CO₂).^d Sulfate (SO₄) determined by turbidity method.^e Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium and Magnesium in alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligrams equivalents and calculated to equivalent quantity of Sodium.^f Analysis by Santa Paula Citrus Fruit Association Chemical Laboratory, Santa Paula, California.^g Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.^h Analysis by Charles D. Samuels, Ph.D., Covina, California.ⁱ Analysis by Dearborn Laboratories.^j Analysis by General Petroleum Corporation of California, Los Angeles.^k Analysis by Los Angeles Testing Laboratory, Los Angeles.^l Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|---------------------------|----------------------------------|--|--|--|--|-------------------------------------|----------------|-------------|----------|----------|----------|
| | | | | | | | Boron ppm | Specific electrical conductance ($K \times 10^{-3}$ at 25°C) | Percent sodium $\frac{\text{Na} + \text{Mg}}{\text{Ca} + \text{Na}}$ | Bicarbonate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) | | | |
| C-14-F-11 | Valley Water Co., Well 3, La Canada; 675 feet N. of Michigan Blvd., 90 feet E. of Hampton Road. Use: Domestic and irrigation. Casing: 20 inches. Gravel 239-257; 259-280; 282-300; 375-380; 437-438; 570-591. U.S. D. A. analysis on 10/23/31 is duplicate of D. W. R. Lab. No. 481. | 4010C | 1177 | *x591 | 481 | 10/23/31 (*) | 35.5 35.3 | 0.12 0.18 | 25 22 | 183 195 | 12 11 | 6 6 | 37 37 | 13 12 | 22 19 | | |
| C-46-F-11 | City of Pasadena, Windsor Well, Altadena; 600 feet SE. of intersection of Mountain View St. and Windsor Ave. Use: Municipal. Casing: 26 inches in 150-foot pit. Perforated 353-359; 474-478; 498-503; 534-543. | 4030C | 1151 | *x573 | (*) | 4 27, 31 | ... | ... | ... | 183 | 12 | 10 | 4 | 4 | 37 | | |
| C-15a-F-11 | City of Pasadena, Copelin No. 4 Motor, 2d well, Pasadena; 150 feet N. of Manzanita St., 100 feet E. of Mentone Ave. In same shaft as C-15-F-11. Use: Municipal. Casing: 14 inches. Gravel 167-384; 530-534. | 4043C | 918 | *x684 | (*) | Oct., 1918 | ... | ... | 27 | 146 | 17 | 33 | 16 | 30 | 11 | *20 | |
| C-17-F-11 | City of Pasadena, Sunset Ave. Well. Pasadena; 200 feet NW. of Mountain St., 20 feet NE. of Manzanita Ave., 300 feet W. of intersection of Sunset Ave. and Mountain St. Use: Municipal. Casing: 26 inches in 70-foot pit. Perforated 245-325; 334-380; 396 415; 434-447; 472-483; 509-543; 555 613; 717-728. | 4043B | 934 | *x751 | (*) | 4/27/31 | ... | ... | 171 | 11 | b12 | ... | ... | ... | ... | | |
| C-20-F-11 | City of Pasadena, Brookside Well, Pasadena; 400 feet N. of Linda Vista Ave., 300 feet W. of Arroyo Terrace, 100 feet E. of S.E. corner of plunge fence. Use: Not used, formerly municipal. Casing: 18 inches in 84-foot pit. W. S. P. 219, No. 466, Pasadena Quadrangle. | 4034B | 774 | *x101 | (*) | Oct., 1918 | ... | ... | 28 | 156 | 26 | 30 | 17 | 38 | 12 | *26 | |
| C-22-F-11 | City of Pasadena, Garfield Well, Pasadena; 500 feet N. of Villa St., 100 feet W. of Euclid Ave., extended. Use: Municipal. Casing: 24 inches in 167-foot pit. Perforated 162-257; 353-372; 387-419; 602-620; 624-629. U.S. D. A. analysis on 10/23/31 is duplicate of D. W. R. Lab. No. 479. | 4054 | 899 | *x720 | (*) | 4/27/31 4/27/31 (*) | 10/23/31 10/23/31 | 27.0 27.0 | 0.22 0.27 | 34 33 | 110 125 | 13 12 | 18 20 | 9 8 | 23 24 | 9 13 | 23 15 |
| C-23d-F-11 | City of South Pasadena, Arroyo Well 2, South Pasadena; N. 73° E., 1,650 feet from east end of Mission St. Arroyo Seco Bridge. Use: Proposed municipal. Casing: 16 inches. Perforated 22-102. | 4028 | 580 | *135 | 485 | 10/23/31 | 46.4 | 0.06 | 18 | 165 | 28 | 48 | 11 | 50 | 19 | 21 | |
| C-24a-F-11 | City of South Pasadena, Alerton Well, South Pasadena; 116 feet W. of Fairview Ave., 420 feet S. of Columbia Ave. Use: Municipal. Casing: 16 inches. Perforated 82-150. | 4047B | 757 | *195 | (*) | 8/31/31 | ... | ... | ... | 225 | 38 | 38 | ... | ... | ... | ... | |
| C-30e-F-11 | City of Pasadena, Alpine Well, Pasadena; 30 feet E. of Euclid Ave., at end of Alpine St. Use: Municipal. Casing: 18 inches. Perforated 69; 90; 100; 160; 170; 275. | 4057L | 755 | *x285 | (*) | 4/27/31 4/27/31 | 10/23/31 10/23/31 | 33.5 33.5 | 0.07 0.07 | 27 27 | 165 165 | 13 12 | 20 17 | 7 7 | 36 36 | 12 12 | 23 |
| C-37-E-11 | Rubio Canyon Land and Water Assn., Figueroa St. Well 4, Altadena; 250 feet N. of Figueroa St., 200 feet E. of Crescent Ave. Use: Irrigation and domestic. Casing: 26 inches. Gravel 195-325; 335-345; 480-485; 548-553. | 4041B | 1151 | *x650 | 480 | 10/23/31 | 23.9 | 0.02 | 32 | 119 | 7 | 4 | 9 | 22 | 7 | 19 | |
| C-39-E-12 | Oak Park Water Co., Altadena; 50 feet S. of New York Ave., 1,000 feet W. of Santa Anita Ave. Use: Domestic. Casing: 14 inches. Gravel 240-280; 315-330. W. S. P. 219, No. 82, Pasadena Quadrangle. | 4092 | 1010 | *x386 | 482 | 10/23/31 | 27.1 | 0.25 | 23 | 140 | 7 | 8 | 4 | 30 | 11 | 16 | |
| C-44-F-12 | City of Pasadena, Craig Well, Pasadena; 150 feet S. of Paloma St., 600 feet W. of Craig Ave., NE. well of two. Use: Municipal. Casing: 26 inches, in steep pit. Perforated 210-303; 310-319; 324-336; 434-535; 554-585; 583 623; 635 650; 717-735; 783-803; 807-822; 830-906; 925-931; 949-968; 1005-1009; 71022-1038; 1051-1055. W. S. P. 219, No. 83, Pasadena Quadrangle. | 4094 | 878 | *x1089 | (*) | 4/27/31 | ... | ... | ... | 140 | 11 | b14 | ... | ... | ... | ... | |
| C-45a-F-12 | City of Pasadena, Made Well, formerly A. B. Chapman Estate, Well 5, Pasadena; 400 feet N. of Colorado St., 1,700 feet E. of Eaton, Wash. Use: Municipal. Casing: 8 inches. Perforated 111-119; 179-200; 336-366; 412-417. | 4115A | 698 | *x425 | (*) | Oct., 1918 | ... | ... | 14 | 183 | 9 | 13 | 3 | 41 | 9 | e10 | |
| C-49-F-12 | San Gabriel Valley Water Co., Well 10-1921-B, Pasadena; 20 feet W. of Santa Anita Ave., 55 feet S. of Oswego St. S. well of two. Use: Domestic and irrigation. Casing: 16 inches. Gravel 137-159; 160-175; 192-200; 218-220; 231-238; 249-274; 277-284; 297-299; 322-368. | 4105 | 720 | *x399 | (*) | Oct., 1918 | ... | ... | 23 | 134 | 12 | 24 | 7 | 25 | 11 | 19 | |

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY *Continued*

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^3$ at 25°C) | Boron ppm | Constituents (parts per million) | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|--------------------|---|-----------|---|----------------------------------|------------------------------------|--|-------------------------------------|---------------------------|------------------------|
| | | | | | | | | | Percent sodium. $\text{Na} \times 10^3$ $\text{Ca} + \text{Mg} + \text{Na}$ | Bicarbonate (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) |
| C-56-F-12 | City of Alhambra, Well 25 (new), Pasadena; 800 feet W. of Kewen Drive, 25 feet N. of Canyon Drive. Use: Municipal. Casing: 18 inches in shallow pit in east end of pump house. Perforated 80-112, 110-157, 166-182. | 4067 | 709 | *x234 | 121 (4) | 7/13/31 7/29/31 | 37.2 | ----- | 38 | 162 154 | 18 24 | 7 31 | 33 | 10 | 35 |
| C-62-F-12 | City of Alhambra, Well 6 Turbine, San Marino; 5 feet E. of Kewen Drive, 150 feet S. of Canyon Drive. Use: Municipal. Casing: 18 inches. Perforated 108-114; 130-154; 204-274; 280-290. | 4067C | 667 | *x300 | (4) | 7/20/31 | ----- | ----- | 146 | 16 | b10 | ----- | ----- | ----- | ----- |
| C-65-F-12 | City of Alhambra, Well 11A, San Marino; 25 feet N. of Mill Lane, 0.25 miles E. of old adobe mill, 300 feet E. of St. Albans Road, 200 feet W. of Virginia Ave. Use: Domestic and irrigation. Casing: 157-195; 200-212; 242-251; 278-305; 323-332; 375-383. | 4077 | 592 | *x428 | 119 (4) | 7/13/31 7/29/31 | 33.8 | ----- | 48 | 150 161 | 13 15 | 14 b12 | 8 | 29 | 6 |
| C-66-F-12 | San Gabriel County Water District, Well 1, San Marino; 100 feet W. of Santa Anita Road, 600 feet S. of Robles Ave. Casing in east end of pump house. Use: Domestic and irrigation. | 4107C | 605 | (x) | (4) | 7/29/31 | ----- | ----- | 122 | 16 | b12 | ----- | ----- | ----- | ----- |
| C-72a-F-12 | W. L. Stewart, Well 1, San Marino; 500 feet E. of San Gabriel Blvd., 000 feet N. of Lombard Road. Use: Irrigation. Gravel 80-92; 112-124; 254-271; 326-338; 360-374; 434-544. | 4106D | 657 | *577 | (e) | Jan., 1920 | ----- | ----- | a115 | 18 | ----- | ----- | ----- | ----- | ----- |
| C-74a-F-12 | Thomas Frost, Pasadena; N. side of San Pasqual St., 700 feet E. of Santa Anita Ave. Use: Irrigation. Casing: 14 inches. Gravel 68-128; 202-208; 250-266; 330-400. | 4100B | 678 | *404 | (e) | Jan., 1920 | ----- | ----- | a115 | 15 | ----- | ----- | ----- | ----- | ----- |
| C-79-F-13 | City of Pasadena, Chapman Well (formerly A. B. Chapman Estate, Well 1), E. of Pasadena; 200 feet S. of Foothill Blvd., 850 feet E. of Sierra Madre Villa Ave. at alcove reservoir. Use: Municipal. Perforated 126-140; 194-226; 348-354; 375-400. | 4125A | 700 | *x570 | (e) | Oct., 1918 | ----- | ----- | 1 | 189 | 9 | 22 | 1 | 38 | 16 |
| C-87-F-13 | City of Monrovia, Well 6, W. of Arcadia; 300 feet W. of Sierra Madre Ave. (W. line of Santa Anita Ranch), 100 feet N. of Mohawk St. Use: Municipal. Casing: 20 inches. | 4135 | 625 | *x476 | 270 | 9/2/31 | 34.0 | 0.30 | 18 | 189 | 7 | 12 | 2 | 37 | 12 |
| C-89-F-13 | City of Sierra Madre, Well 2, Sierra Madre; 0.45 miles W. of Santa Anita Ave., 300 feet N. of Central Ave. Use: Municipal. Casing: 26 inches. Gravel 260-288; 372-390. | 4163A | 692 | *x446 | (4) | 7/15/31 | ----- | ----- | 188 | 14 | b15 | ----- | ----- | ----- | ----- |
| C-101-F-13 | City of Arcadia, Well 1, Arcadia; 700 feet W. of Santa Anita Ave., 100 feet N. of Orange Grove Ave. NE, well in group. Use: Municipal. Casing: 22 inches. Gravel 183-210; 212-216; 221-223; 281-290; 300-304; 342-434; 454-464. | 4164 | 602 | *x464 | 107 (4) | 7/2/31 7/24/31 | 37.7 | ----- | 66 | 162 171 | 14 17 | 35 b25 | 6 | 12 | 7 |
| C-104-F-13 | City of Arcadia, Well 700 feet W. of Santa Anita Ave., 300 feet N. of Orange Grove Ave. NE, well of group. Use: Municipal. Casing: 24 inches. Perforated 146-194; 220-490. | 4164C | 611 | *x490 | (1) (4) | 8/17/25 7/24/31 | ----- | ----- | 21 | 154 193 | 14 15 | 18 b23 | 35 | 1 | c17 |
| C-104b-F-13 | City of Arcadia, Well 2a, Arcadia; 315 feet N. of Orange Grove Ave., 385 feet W. of Santa Anita Ave. Use: Municipal. Casing: 24 inches. Gravel 153-194; 226-246; 264-302; 380-406; 408-430; 432-450; 470-475; 481-502. | 4164D | 600 | *x530 | (4) | 7/24/31 | ----- | ----- | 181 | 17 | b50 | ----- | ----- | ----- | ----- |
| C-109-G-12 | San Gabriel Valley Water Co., Well 125 (Richardson Well), Pasadena; 40 feet E. of Oak Knoll Ave., 60 feet N. of Huntington Garden Drive, extended. Second well in lotion of 60-foot pit, north pump house of two. Use: Domestic and irrigation. Casing: 12 inches. W. S. P. 270, No. 467, Pasadena Quadrangle. | 4068A | 649 | x200 | (e) | Oct., 1918 | ----- | ----- | 32 | a189 | 21 | 41 | 14 | 42 | 13 |
| C-117a-F-12 | San Gabriel Valley Water Co., Walnut St. Plant, Well 1928. Pasadena; 200 feet S. of Walnut St., 100 feet E. of Huntington Drive. Use: Irrigation and municipal. Casing: 24 inches. Perforated 638-674. | 4095 | 754 | *x690 | (4) | 7/20/31 | ----- | ----- | 132 | 15 | b10 | ----- | ----- | ----- | ----- |
| C-119-F-12 | San Gabriel Valley Water Co., Well 1917, San Marino; 25 feet E. of Canterbury Road, 35 feet S. of Lombardy Road. Use: Domestic and irrigation. Casing: 18 inches. Perforated 127-160; 170-200; 223-370. | 4096A | 670 | *x385 | (4) | 7/20/31 | ----- | ----- | 122 | 17 | b10 | ----- | ----- | ----- | ----- |
| C-122-F-12 | San Gabriel Valley Water Co., Well 59, San Marino; 450 feet S. of Robles Ave., 200 feet W. of Santa Anita Ave., produced south. On east side of wash. Use: Domestic and irrigation, not used since 1927. Casing: 16 inches, in deep pit, in south end of pump house. | 4107 | 620 | x430 | (e) | Oct., 1918 | ----- | ----- | 40 | 128 | 15 | 16 | 23 | 30 | 4 |

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY - Continued

| Well number | Location and description | Location number | Eleva- tion of ground | Total depth of well in feet | Labora- tory number | Date | Constituents (parts per million) | | | | | | | | |
|-------------|--|-----------------|--------------------------------|--------------------------------------|---------------------------|--------------------|---|--------------|--|--|------------------------------------|--|--|-----------------|-------------------|
| | | | | | | | Specific elec- trical condi- tance (K x 10 ⁻³ at 25°C) | Boron ppm | Percent sodium Na x 100 Ca + Mg + Na | Bicar- bonate radicle (HCO ₃) | Chloro- ride radicle (Cl) | Sul- phate radicle (SO ₄) | Nitrate radicle (NO ₃) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| C-122a-F-12 | San Gabriel County Water District, Well 4, San Marino; 150 feet E. of Santa Anita Ave.; 200 feet S. of Robles Ave., NW. well of group. Use: Domestic and irrigation. Casing: 24 inches. | 4107B | 623 | x496 | (*) | 7/20/31 | ----- | ----- | 107 | 16 | b10 | ----- | ----- | ----- | ----- |
| C-124-F-12 | San Gabriel Valley Water Co., Patton Well 1623, Pasadena; 800 feet E. of Oak Grove Ave., 150 feet S. of Arden Road, 250 feet E. of Wilson Ave. Casing in N. end of pump house, 100 feet E. of old well. Use: Formerly domestic and irrigation. Casing: 18 inches. Gravel 134-142; 218-225; 326-330; 401-410; 173-179; 206-298; 363-369; 421-427. | 4076B | 726 | *x501 | (*) | 7/20/31 | ----- | ----- | 151 | 18 | b12 | ----- | ----- | ----- | ----- |
| C-124a-F-12 | San Gabriel Valley Water Co., G. S. Patton-old well, Pasadena; 150 feet S. of Arden Road, 150 feet E. of Wilson Ave., 100 feet W. of C-124-F-12. Under booster pump house at SE. corner of reservoir. Use: Not used, formerly irrigation and domestic. Casing: 24 inches. Perforated 114-116; 138-140; 158-170; 180-200; 246-248; 338-352; 388-380; 388-430. | 4076C | 725 | *x430 | (*) | Oct., 1918 | ----- | ----- | 31 | 159 | 21 | 25 | 24 | 33 | 10 |
| C-127-F-11 | City of Pasadena, Villa St. Well. Pasadena, at S. end of Villa St. reservoir, just NW. of intersection of Villa St. and Euclid Ave. Use: Municipal. Casing: 26 inches in 210-foot concrete pit. Perforated 212-364; 374-426; 450-468; 476-442; 518-523; 527-564; 565-612; 624-638; 729-741; 734-840; 74-879. | 4054A | 890 | *x553 | (*) | 4/27/31 | ----- | ----- | 128 | 13 | b16 | ----- | ----- | ----- | ----- |
| C-130-F-13 | City of Sierra Madre, Well 1, Sierra Madre; 2,000 feet W. of Santa Anita Ave., 100 feet N. of Central Ave. Use: Municipal. Casing: 26 inches. (travel 212-241; 286-355; 363-376; 425-459. W. S. P. No. 258, Pasadena Quadrangle. | 4163 | 674 | *x459 | (*) | 7/15/31 | ----- | ----- | 161 | 15 | b23 | ----- | ----- | ----- | ----- |
| C-131-F-12 | San Gabriel Valley Water Co., Oak Knoll 2 (Well 1921a), Pasadena; 125 feet E. of Oak Knoll Ave., 50 feet N. of P. E. Ry. E. well of two. Use: Domestic and irrigation. Casing: 18 inches. Gravel 117-130; 153-159; 178-208; 238-279. | 4066D | 739 | *x300 | (*) | 7/20/31 | ----- | ----- | 166 | 18 | b10 | ----- | ----- | ----- | ----- |
| C-201a-G-12 | City of Alhambra, Longden Ave. Well, N. of San Gabriel; 100 feet E. of Alhambra, Longden Ave., Well N. of San Gabriel; 100 feet Casing: 28 inches. Perforated 296-336; 346-386; 412-437; 440-480; 482-563-680; 731-735-778. | 4068 | 502 | *x801 | 117 | 7/13/31 7/20/31 | 31.4 | 4 | 131 | 13 | b25 | 18 | 25 | 10 | 32 |
| C-202-G-12 | Alice H. Graves, San Marino; 175 feet NW. of Huntington Drive, 70 feet SW. of El Molino Ave., 10 feet S. of reservoir near E. end. Use: Municipal. City of Alhambra purchases water. Casing: 18 inches. (travel 199-230; 278-308; 314-353; 401-413; 434-481. | 4069 | 560 | *x505 | 120 | 7/13/31 7/20/31 | 42.6 | 25 | 143 | 34 | b15 | 21 | 42 | 16 | 26 |
| C-204-G-12 | City of South Pasadena, Wilson Well 2, San Gabriel; 110 feet W. of Bradbury Drive, 275 feet S. of Adelma Drive. Use: Municipal. Casing: 25 inches. Perforated 222-280; 300-310; 336-430-440-525; 560-657; 663-683. | 4079 | 479 | *x720 | 116 | 7/13/31 8/31/31 | 39.6 | 27 | 174 | 16 | b37 | 18 | 37 | 19 | 29 |
| C-206-G-12 | City of Alhambra, Garfield Well 1, Alhambra; 90 feet W. of Garfield Ave., 25 feet S. of McLean St. Use: Municipal. Casing: 18 inches. Perforated 237-265; 275-325; 340-353; 375-471; 483-496. | 4069 | 535 | *x560 | 118 | 7/13/31 7/20/31 | 45.0 | 26 | 149 | 32 | b44 | 27 | 43 | 16 | 29 |
| C-211a-H-12 | City of Monterey Park, Emerson Plant, Well 2, Monterey Park; in center of Emerson Ave., 90 feet W. of McPherrin Ave. East well in pump house. Use: Municipal. Casing: 16 inches. Perforated 122-138; 138-140; 152-166. | 2873A | 396 | *x302 | 115 | 7/13/31 7/20/31 | 71.1 | 57 | 232 | 77 | b28 | 1 | 32 | 18 | 96 |
| C-211j-H-12 | Midwick Country Club, South 6th St., Plant 2, Alhambra; 30 feet W. of 6th St., 50 feet S. of Glendon Way; East well of two in underground pump house. Use: Irrigation. Casing: 16 inches. Perforated 150-182; 154-198. | 2913 | 412 | *x412 | 229 | 8/13/31 | 42.5 | 37 | 180 | 30 | 18 | 16 | 33 | 16 | 39 |
| C-213b-H-13 | Potero Heights Water Co., Well 2, S. of San Gabriel; 0.1 miles S. of Rush Ave., 403 feet W. of Walnut Grove Ave. Use: Not used. Gravel 94-97; 175-197; 236-309; 407-420; 491-513. | 2915B | 231 | *x518 | (*) | Oct., 1918 | ----- | ----- | 46 | 238 | 42 | 17 | 0 | 40 | 13 |
| C-213c-H-12 | City of Monterey Park, Garvey Ave., Plant 1, E. of Monterey Park; 50 feet W. of Delta St., 230 feet S. of Garvey Ave., W. of Plant 1. Use: Municipal. Casing: 16 inches. Gravel 206-249; 385-422. | 2913A | 262 | *x450 | 114 | 7/13/31 7/20/31 | 47.6 | 26 | 189 | 34 | b28 | 13 | 21 | 46 | 18 |

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|----------|----------------------------------|--|---|--|---|--|-----------|-----------|-----------|----|
| | | | | | | | Boron ppm | Percent sodium $\frac{\text{Na} \times 100}{\text{Ca} + \text{Mg}}$ | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | | | | |
| C-214-G-13 | Mr. Longly, E. of Temple; 20 feet W. of El Monte Ave.; 20 feet S. of Palm Drive. Deep pit. Use: Irrigation. Gravel 14-16; 169-177; 228-232; 387-408-419; 451-453. | 4168 | 369 | *x477 | 278 | 9/ 2/31 | 42.6 | 0.22 | 20 | 210 | 14 | 14 | 45 | 18 | 21 | |
| C-223L-G13 | Driftwood Dairy, N. of El Monte; 170 feet S. of Lower Azusa Road, 600 feet W. of Rio Hondo Bridge; 350 feet E. of El Monte Ave. Use: Domestic and irrigation. Casing: 7 inches. Perforated 65-70. | 2960A | 302 | x142 | 274 | 9/ 2/31 | 39.4 | 0.20 | 28 | 192 | 13 | 12 | 13 | 42 | 7 | 24 |
| C-233e-H-13 | E. Van Insebrook, S. of El Monte; 183 feet W. of Hoyt St., 235 feet N. of Harvey Road. Use: Irrigation. Casing: 7 inches. Perforated 46-46. | 2953F | 266 | x73 | 280 | 9/ 2/31 | 50.6 | 0.02 | 13 | 247 | 16 | 30 | 11 | 65 | 13 | 17 |
| C-238i-H-13 | A. Alluis, S. of El Monte; 55 feet S. of Durfee Road, 0.46 miles SW. of Slack Ave. Use: Domestic. Casing: 7 inches. Perforated 46-46. | 2956D | 230 | *x50 | 271 | 9/ 2/31 | 50.7 | 0.03 | 11 | 253 | 11 | 35 | 13 | 72 | 17 | 14 |
| C-243-F-14 | Bendixley Water Ditch Co., S. of Monrovia; 20 feet W. of Mountain Ave., 600 feet S. of Euclid Ave. Use: Irrigation. Gravel 80-100; 163-183; 229-257; 273-333; 348-352. | 4217 | 413 | *x352 | 247 | 8/21/31 | 43.0 | - - - - - | 14 | *241 | 9 | 21 | 4 | 54 | 17 | 17 |
| C-243b-F-14 | City of Monrovia, Lower Norumbega Well, Monrovia; 150 feet NE. of Norumbega Drive crossing over Sawpit Creek. Use: Municipal. Casing: 6 x 6 wooden pit to tunnel under creek. | 4203 | 785 | x80 | (d) | 7/15/31 | - - - - - | - - - - - | - - - - - | 332 | 27 | b35 | - - - - - | - - - - - | - - - - - | |
| C-243c-E-14 | City of Monrovia, Upper Norumbega Well, Monrovia; 150 feet on E. bank of Sawpit Creek, 0.3 miles NW from Norumbega Drive crossing of Sawpit Creek. Casing: 8' x 8' pit to tunnel under creek. | 4203A | 850 | x70 | (d) | 7/15/31 | - - - - - | - - - - - | - - - - - | 312 | 23 | b33 | - - - - - | - - - - - | - - - - - | |
| C-245 G-14 | City of Monrovia, San Gabriel Well 1, S. of Monrovia; 400 feet E. of Peck Road, 200 feet N. of road running along ranch line about 0.5 miles N. of Live Oak Ave., 90 feet N. of C-245a-G-14. Use: Municipal. Casing: 26 inches. Perforated 75-132; 136-180; 182-214; 217-356; 374-420. | 4198 | 368 | *x440 | (f) | 8/ 3/25 | - - - - - | - - - - - | - - - - - | 6 | 187 | 8 | - - - - - | 40 | 12 | e7 |
| C-245a-G-14 | City of Monrovia, San Gabriel Well 2, S. of Monrovia; 400 feet E. of Peck Road, 110 feet N. of road running along ranch line, 0.5 miles N. of Live Oak Ave., 90 feet S. of C-245-C-14. Use: Municipal. Casing: 26 inches. Gravel 74-132; 135-177; 183-200; 220-246; 265-300; 310-330; 379-430. | 4198E | 368 | *x470 | 281 | 9/ 2/31 | 36.7 | 0.01 | 16 | 207 | 7 | 10 | 9 | 44 | 16 | 15 |
| C-255b-H-14 | Mountain View School, SE. of El Monte; 320 feet SE. of Mountain View Road, 972 feet SW. of Valley Blvd. Use: Domestic and irrigation. Casing: 7 inches. Gravel 8-15; 37-41; 47-49; 81-95. | 2973L | 283 | *x95 | 277 | 9/ 2/31 | 40.4 | 0.02 | 13 | 223 | 4 | 24 | 6 | 56 | 14 | 14 |
| C-267-H-14 | P. Briano, SE. of El Monte; 250 feet NW of Workman Mill Road, 0.83 miles SW. of Central Ave. Use: Domestic and irrigation. Casing: 7 inches. Gravel 26-76; 87-103. | 2086 | 319 | *x103 | 275 | 9/ 2/31 | 59.7 | 0.07 | 48 | 214 | 36 | 78 | 3 | 44 | 13 | 71 |
| C-268L-I-13 | Pico County Water District, S. of El Monte; 0.56 miles E. of Durfee Road, 40 feet S. of Syphon Road, in Whittier Narrows. Use: Irrigation. Casing: 8 inches. Perforated 48-73; 88-97. | 2947F | 212 | *x101 | 428 | 10/13/31 | 34.8 | 0.05 | 12 | 192 | 4 | 24 | 2 | 48 | 12 | 10 |
| C-280-F-15 | Duarte Mutual Water Co., Las Lomas Well, E. of Monrovia; 100 feet S. of P.E. Ry.; 100 feet W. of Las Lomas Ave., at Las Lomas Station. Use: Irrigation. Casing: 26 inches. Perforated 40-270. | 4255E | 591 | *x297 | 246 | 8/21/31 | 41.9 | - - - - - | 15 | *225 | 9 | 28 | 4 | 56 | 16 | 17 |
| C-297b-G-15 | South Baldwin Park, Baldwin Park; 125 feet NE. of Merced Ave., 350 feet NW. of Covina Blvd. Use: Irrigation. | 3022 | 350 | x160 | 250 | 8/21/31 | 49.4 | - - - - - | 11 | 241 | 16 | 15 | 29 | 68 | 16 | 13 |
| C-304d-H-15 | La Puente Water Co., Well 2, S. of Baldwin Park; 0.49 miles NE. of Merced Ave., 57 feet NW. of Willow Ave. Use: Irrigation. Perforated 81-113; 135-153; 163-219; 237-273. | 3052 | 364 | *x273 | 253 | 8/21/31 | 42.1 | - - - - - | 18 | 210 | 13 | 19 | 18 | 50 | 16 | 19 |
| C-311e-H-15 | Anthony Pickeworth, S. of Baldwin Park; 60 feet S. of Fairgrove Ave.; 180 feet E. of Glendale Ave. Use: Domestic. Casing: 7 inches. Perforated 138-141; 180-193. | 3055L | 334 | *x200 | 254 | 8/21/31 | 62.3 | - - - - - | 31 | 217 | 30 | 94 | 9 | 62 | 18 | 47 |
| C-325e-F-16 | Glendora Consolidated Mutual Irrigating Co., Azusa Plant, North Well, N. of Azusa; 2,700 feet N., 780 feet W. of Intersection of Sierra Madre Ave. and San Gabriel Road. North well of two. | 4285F | 675 | - - - - - | 210 | 8/12/31 | 35.0 | - - - - - | 13 | 192 | 4 | 24 | 1 | 48 | 14 | 13 |
| C-335a-G-16 | Glendora Consolidated Mutual Irrigating Co., Voshberg Plant, Azusa, 0.7 miles W. of Azusa Ave.; 450 feet S. of First St. Use: Irrigation. Casing: 26 inches. Gravel 252-300. | 4287A | 531 | *x500 | 215 | 8/12/31 | 47.6 | - - - - - | 13 | 217 | 13 | 21 | 21 | 65 | 14 | 16 |

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY *Continued*

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|--------------|--|---------------------|-----------------------------|-------------------|-------------------|--|-----------|---|---|-----------------------|------------------------------------|------------------------------------|--------------|----------------|-------------|
| | | | | | | Specific electrical conductance ($K \times 10^3$ at 25°C) | Boron ppm | Percent sodium Na $\times 100$ Ca + Mg + Na | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| C-330-G-16 | Glendora Independent Water Co., Well 2, S. of Azusa; 0.88 miles E. of Irwindale Ave. 350 feet S. of Bonita Ave. (Arrow Highway). Use: Domestic and irrigation. Casing: 20 inches in S. end of pump house. Gravel 103-283; 20-305; 307-399; 398-406. | 4289 | 471 | *x411 | 245 | 8/21/31 | 48.7 | - | 18 | 232 | 9 | 27 | 58 | 18 | 23 |
| C-338-G-16 | City of Covina, Well 1, Covina; 450 feet S. of Covina Blvd., 400 feet W. of 4th St., in Covina City Park. Use: Municipal plunge and Park. Casing: 16 inches. Perforated 387-390; 417-451; 450-455. | 3101 | 533 | *x548 | (d) 360 | 7/22/31 9/26/31 | 40.3 | 0.08 | 23 | 166 171 | 17 14 | b10 22 | 39 | 16 | 22 |
| C-343-H-16 | A. R. Evans, S. of Covina; 50 feet W. of Hollenbeck Ave.; 500 feet N. of Arroyo Dr. S. well of two. Use: Irrigation and domestic. Casing: 16 inches. Perforated 223-234; 383-386; 480-497. | 3102 | 487 | *x505 | (e) Aug., 1918 | - | - | - | 41 | 226 | 23 | 54 | 11 | 30 | 9 |
| C-348-H-16 | Valencia Water Co., Well 2, SW. of Covina; 20 feet E. of Azusa Ave., 480 feet N. of Service St. 260 feet N. of bridge across Walnut Creek on Azusa Ave. Use: Irrigation. Casing: 16 inches. Perforated 137-140; 226-231; 314-319; 347-351; 381-401; 404-408. | 3063 | 441 | *x500 | 257 | 8/21/31 | 55.2 | - | 30 | 229 | 20 | 71 | 7 | 53 | 20 |
| C-353a-H-16 | Valencia Heights Water Co., Well 1, S. of Covina; 230 feet S. Walnut Creek Wash, 0.13 miles E. of Citrus Ave. Use: Irrigation and domestic. Casing: 16 inches. Gravel 163-165; 167-173; 208-223; 311-325. | 3113A | 470 | *475 | 361 | 9/26/31 | 46.8 | 0.08 | 26 | 204 | 12 | 42 | 9 | 46 | 18 |
| C-357a-I-16 | F. H. Amar, Well 1, SE of Baldwin Park; 280 feet W. of Pass and Covina Rond, 0.39 miles S. of Amar Road. Use: Domestic. Casing: 12 inches. | 3086 | 432 | *x430 | 256 | 8/21/31 | 82.5 | - | 23 | 204 | 53 | 128 | 43 | 90 | 25 |
| C-364-I-15 | Kwis Water Co., Well 2, S. of Puente; 100 feet S. of Gale Ave., 0.25 miles W. from Hacienda Blvd. on west bank of small drain. Use: Irrigation. Casing: 14 inches, in shallow pit in S. end of pump house. | 3038 | 330 | x300 | (e) Oct., 1918 | - | - | - | 34 | 354 | 66 | 160 | 0 | 91 | 37 |
| C-365a-II-15 | J. C. Pearson, Well 1, SE of Baldwin Park; 35 feet S. of Merced Ave., 2,350 feet E. of Glendora Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 133-143; 239-245. | 3064A | 383 | *x300 | 255 | 8/21/31 | 49.0 | - | 28 | 204 | 20 | 48 | 11 | 49 | 18 |
| C-380b-H-15 | J. P. Calegan, SW. of Baldwin Park; 475 feet NW. of Sunset Ave., 42 feet SW. of Temple Ave. Use: Irrigation. Casing: 7 inches. Perforated 40-50. | 3035L | 310 | *55 | 251 | 8/21/31 | 82.9 | - | 20 | 354 | 48 | 57 | 43 | 98 | 28 |
| C-393-G-15 | S. M. Walker, Well 3, N. of Baldwin Park; 50 feet W. of N. Main Ave., 200 feet S. of Bonita Ave. (Arrow Highway). Use: Irrigation. Casing: 20 inches. Gravel 117-225; 225-440. | 4239C | 425 | *x446 | 248 | 8/21/31 | 34.7 | - | 11 | a198 | 4 | 17 | 9 | 49 | 13 |
| C-399-G-16 | City of Covina, Well 2, E. of Covina; 700 feet S. of Cypress Ave., 30 feet W. of Grand Ave. Use: Municipal. Casing: 20 inches. Perforated 335-344. | 3120 | 622 | *x575 | (d) 7/22/31 | - | - | - | 166 | 20 | b17 | - | - | - | - |
| C-404-F-17 | City of Glendora, Well 2, Glendora; 600 feet N. of Sierra Madre Ave., 150 feet W. of Loraine Ave. Use: Municipal. Casing: 24 inches. Perforated 498-520; 517-582; 602-635; 660-692. | 4355A | 968 | *x683 | (d) 287 | 7/22/31 9/10/31 | 58.6 | 0.09 | 19 | 302 | 18 | v30 | 2 | 66 | 26 |
| C-405-F-17 | City of Glendora, Well 1, Glendora; 25 feet N. of Sierra Madre Ave., 200 feet W. of Loraine Ave. Use: Municipal. Casing: 20 inches. Gravel 398-500; 508-514. | 4355 | 950 | *x525 | (d) 7/22/31 | - | - | - | 266 | 17 | b20 | - | - | - | - |
| C-406-F-17 | Glendora Consolidated Mutual Irrigating Co., Mutual Well 7, Glendora; 1,200 feet E. of Live Oak Ave., 350 feet N. of Leadora Ave., on W. bank of Little Dalton Creek. Use: Irrigation. Casing: 20 inches. Perforated 360-520. | 4345A | 905 | *x520 | (e) Oct., 1918 | - | - | - | 20 | 274 | 18 | 25 | 7 | 58 | 16 |
| C-414-F-17 | Glendora Independent Water Co., Well 6, E. of Glendora; 310 feet W. of San Jose Drive, 1,700 feet S. of Foothill Blvd. Casing in shallow pit. 1 sec. Irrigation. Gravel 87-107; 135. | 4356A | 829 | *140 | (e) Oct., 1918 | - | - | - | 34 | 262 | 15 | 26 | 6 | 56 | 5 |
| C-437a-G-17 | Columbia Land and Water Co., Well 16, S. of Glendora; 600 feet E. of Sunflower Ave., 35 feet N. of Gladstone Ave. Use: Irrigation. Casing: 16 inches. Gravel 157-181; 194-209; 220-233. | 4358A | 793 | *x414 | 249 | 8/22/31 | 47.5 | - | 19 | 210 | 13 | 44 | 18 | 50 | 21 |



TABLE 4. WELLS IN SAN GABRIEL VALLEY

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|------------|----------------------------------|--|----------------|-------------------------------------|--|---|----------------|----------|-----------|----------|
| | | | | | | Boron ppm | Specific electrical conductance ($K \times 10^4$ at 23°C) | Percent sodium | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Magnesium (Mg) | | | |
| C-446-G-17 | San Dimas Water Co., Lone Hill Well 2, W. of San Dimas; 550 feet S. of Bonita Ave.; 300 feet E. of Lone Hill St. in bottom of ravine. Use: Irrigation. Perforated 224-251; 347-356. V. S. D. A. analysis on 8/22/31 is duplicate of D. W. R. Lab. No. 235. | 4379 | 835 | *472 | 235 (*) | 8/22/31 8/22/31 | 37.6 38.7 | 0.13 | 174 201 | 9 9 | 30 30 | 8 9 | 37 38 | 13 11 | 31 35 |
| C-446e-G-18 | San Dimas Water Co., San Dimas; 60 feet S. of A. T. & S. F. Ry.; 600 feet W. of Walnut Ave. Use: Irrigation. Casing: 16 inches. Perforated 287-318. | 4399 | 920 | *318 | 99 (*) | 6/29/31 | 41.9 | 0.04 | 37 | 165 | 17 | 14 | 32 | 14 | 37 |
| C-446f-F-19 | R. S. Brydon, Well 1, N. of La Verne; 2,200 feet N. from east end of Wheeler-La Verne Road, 800 feet W. of private road running N. from E. end of Wheeler-La Verne Road. Upper well of two. Use: Irrigation. Casing: 18 inches. | 4435 | 1,650 | 254 | Nov., 1918 | — | — | — | 34 | 271 | 14 | 22 | 7 | 57 | 9 |
| C-446h-F-19 | R. S. Brydon, N. of La Verne; 3,500 feet E. of N. end of Wheeler-La Verne Road, 260 feet N. of E. and W. road, 50 feet W. of private road road N. Use: Irrigation on. | 4445 | 1,502 | *120 | 441 | 10/16/31 | 45.4 | 0.04 | 18 | 259 | 9 | 6 | 6 | 54 | 19 |
| C-476e-F-18 | F. H. Paine, N. of La Verne; 300 feet northerly along Wheeler-La Verne Road from corner (second turn N. of Base Line Road), thence 150 feet E. to well. Use: Irrigation and domestic. Casing: 12 inches. W. S. P. 219; No. 218, Ponoma Quadrangle. 150-158. | 4426C | 1,315 | *148 | 439 | 10/16/31 | 88.3 | Tr. | 14 | 204 | 41 | 155 | 66 | 106 | 35 |
| C-476f-F-18 | B. L. Reynolds, N. of La Verne; 300 feet W. of Wheeler-La Verne Road, 4,160 feet N. of Base Line Road, on S. side of short east-west road. Use: Domestic and irrigation. Gravel 127-133; 150-158. | 4426A | 1,280 | *370 | (*) | Oct., 1918 | — | — | 6 | 183 | 14 | 21 | 12 | 50 | 16 |
| C-482-G-18 | Glendora Consolidated Mutual Irrigating Co., Mutual Well 4, NW. of La Verne; 60 feet S. of Old Foothill Blvd., 350 feet W. of Artesia Ave. Use: Irrigation. | 4407C | 1,050 | x500 | (*) | Oct., 1918 8/12/31 | 48.8 | — | 23 21 | 249 253 | 18 11 | 39 36 | 10 4 | 54 52 | 18 23 |
| C-501a-G-18 | San Dimas Water Co., Artesia Plant, San Dimas; 100 feet S. of Juanita Ave., 50 feet E. of Artesia Ave. Use: Irrigation. Casing: 18 inches. | 4408 | 1,017 | *x571 | 438 | 10/16/31 | 41.9 | 0.01 | 32 | 204 | 14 | 21 | 5 | 38 | 15 |
| C-546a-G-18 | Base Line Water Co., Well 2 (formerly F. H. Harwood and B. A. Woodford), La Verne; 170 feet S. of Foothill Blvd., 100 feet W. of Wheeler Road. Use: Irrigation. Casing: 15 inches. Perforated 317-338; 403-423; 470-492. | 4428B | 1,115 | *552 | (*) | Oct., 1918 | — | — | 6 | 211 | 19 | 22 | 6 | 49 | 22 |
| C-676i-H-18 | Phillips Estate, W. of Pomona; 110 feet S. of U. P. R. R., 220 feet N. of 2d Ave., 4,700 feet W. of White Ave., 40 feet E. of concrete reservoir. Use: Irrigation. U. S. D. A. analysis on 8/22/31 is duplicate of D. W. R. Lab. No. 71. | 3224 | 818 | x | 471 | 10/22/31 10/22/31 | 30.0 38.3 | 0.08 0.06 | 16 18 | 192 204 | 9 | 20 19 | 11 15 | 51 52 | 12 11 |
| C-700e-I-16 | Calendri & Marenko, E. of Puente; 380 feet N. of Valley Blvd., 1.05 miles E. of Pass and Covina Road. Use: Irrigation and domestic. Casing: 12 inches. Gravel 12-28; 88-90; 104-106; 158-160. U. S. D. A. analysis on 8/22/31 is duplicate of D. W. R. Lab. No. 234. | 3099B | 405 | *201 | 234 (*) | 8/21/31 8/21/31 | 117.7 118.0 | 0.19 | 35 37 | 326 345 | 80 75 | 243 239 | 1b 18 | 101 40 | 44 40 |
| C-704j-H-18 | W. K. Kellogg, Well 2, W. of Pomona; 20 feet N. of San Jose Wash, 4,000 feet NE. of Collins St., 0.5 miles NW. of Valley Blvd. Use: Domestic. Gravel 66-80; 93-99; 192-195; 215-218. | 3194 | 731 | *231 | 362 | 9/26/31 | 54.3 | 0.09 | 21 | 232 | 18 | 69 | 4 | 61 | 18 |
| C-705d-I-17 | Reuther-Graham Feed Yards, SW. of Spadra; 60 feet E. of ranch road to Reuther-Graham Feed Yards, 145 feet S. of S. P. R. R., 4,300 feet NE. of Brea Canyon Road. Use: Domestic and stock. Gravel 42-60; 65-85. | 3177A | 613 | *89 | 364 | 9/26/31 | 68.7 | 0.31 | 17 | 259 | 23 | 110 | 9 | 34 | 22 |
| C-705e-I-17 | Currier Ranch, SW. of Spadra; 200 feet S. of S. P. R. R., 1,400 feet SE. of Valley Blvd., 3,300 feet NE. of Brea Canyon Road. Use: Irrigation. | 3167B | 604 | — | 363 | 9/26/31 | 66.5 | 0.37 | — | 256 | 23 | — | — | — | — |
| C-710b-I-15 | Victoria Mutual Water Co., Well 3, S. of Puente; 0.20 miles W. of Puente Road, 90 feet N. of U. P. R. R. Use: Irrigation. Casing: 10 inches. Gravel 28-82; 155-185; 268-270. | 3048A | 327 | *500 | 242 | 8/21/31 | 103.9 | — | 29 | 387 | 50 | 175 | 18 | 103 | 40 |

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.

^a Includes small equivalent quantity of Carbonate (CO₃).
^b Subhate (SO₄) determined by turbidity method.
^c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

^d Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
^e Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

^f Analysis by Los Angeles Testing Laboratory, Los Angeles.
^g Analysis by United States Department of Agriculture, Riverside, Rubidoux Laboratory, Riverside, California.

TABLE 5. SURFACE WATERS IN UPPER SAN GABRIEL VALLEY

| Number | Location and description | Location number | Elevation of ground | Discharge in second-feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^4$ at $23^\circ C$) | Constituents (parts per million) | | | | | | | | |
|------------|---|-----------------|---------------------|--------------------------|-------------------|--|---|---------------------------------------|---|-------------------------|--|--|-------------------------------------|----------------------------|----------------------------|----------------------------|
| | | | | | | | | Boron ppm | Percent sodium $\text{Na} \times 100$ $\text{Ca} + \text{Mg} + \text{Na}$ | Chloride radicle (Cl) | Bicarbonate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| S5127-D-11 | Arroyo Seco, NW. of Pasadena. Sampled at U. S. G. S. gaging station near south line of Sec. 30, T. 2 N., R. 12 W., S. B. B. & M. (unsurveyed). 1.5 miles above mouth of Millard Canyon and opposite U. S. Forest Service warehouse. | S5127 | 1,450 | 0.2 3.3 | 109 | 7/2/31 12/14/31 | 45.2 44.8 | 0.28 0.28 | 24 17 | 244 229 | 9 11 | 19 39 | 0 0 | 46 51 | 18 18 | 27 20 |
| S5178-E-12 | Rubio Canyon Land and Water Company, N. of Altadena. Rubio Canyon water from tunnel in canyon and surface flow sampled at reservoir from pipeline discharging into company's reservoir. All gravity water. Use: Irrigation. | S5179 | 1,750 | ----- | 486 | 10/26/31 | 33.1 | 0.09 | 18 | 189 | 4 | 13 | Tr. | 41 | 12 | 16 |
| S4090-E-12 | Eaton Creek. Sampled at Pasadena Water Department intake just above U. S. G. S. gaging station near line between Secs. 2 and 11, T. 1 N., R. 12 W., S. B. B. & M. at mouth of canyon just above Mount Wilson toll bridge and 4 miles NE. of Pasadena. Use: Municipal. | S4090 | 1,220 | 4 | 819 | 3/16/32 | 27.4 | 0.21 | 11 | 149 | 7 | 11 | 0 | 33 | 14 | 8 |
| S4163-E-13 | Big Santa Ania Creek, E. of Sierra Madre. Sampled from stand-pipe on N. line of Grandview Ave. in center of Santa Anita Ave. Release from storage for irrigation. | S4163 | 800 | ----- | 108 | 7/2/31 8/12/31 9/10/31 10/15/31 12/14/31 | 29.2 31.8 31.7 31.7 35.5 | ----- 18 0.11 0.11 0.16 | 171 13 14 180 198 | 4 6 5 5 9 | 9 8 10 5 18 | 1 Tr. Tr. Tr. 4 | 35 38 35 35 41 | 12 17 17 22 16 | 14 12 12 27 14 | |
| S4212-E-14 | Sawpit Creek at Sawpit Dam, N. of Monrovia. In NW $\frac{1}{4}$ of NE $\frac{1}{4}$, Sec. 13, T. 1 N., R. 11 W., S. B. B. & M. Sampled from lowest needle gate valve. | S4212 | 1,240 | ----- | 106 | 7/3/31 | 52.8 | ----- | 17 | 274 | 11 | 46 | 0 | 65 | 19 | 23 |
| S4203-E-14 | Sawpit Creek, N. of Monrovia. Sampled at U. S. G. S. gaging station in SW $\frac{1}{4}$ of SW $\frac{1}{4}$, Sec. 13, T. 1 N., R. 11 W., S. B. B. & M., three-eighths mile below junction of two main branches of creek. Discharge from U. S. G. S. | S4203 | 900 | 0.2 | 811 | 3/15/32 | 46.7 | 0.01 | ----- | 241 | 14 | ----- | ----- | ----- | ----- | ----- |
| S4273-E-16 | Fish Creek, NE. of Duarte. Sampled at U. S. G. S. gaging station in SW $\frac{1}{4}$ of SW $\frac{1}{4}$, Sec. 15, T. 1 N., R. 10 W., S. B. B. & M., 0.75 miles above mouth of canyon. Discharge from U. S. G. S. | S4273 | 1,025 | 6 | 818 | 3/15/32 | 35.4 | 0.02 | 13 | 210 | 6 | 17 | 0 | 48 | 16 | 13 |
| S4293-F-16 | Rogers Creek, N. of Azusa. Sampled at U. S. G. S. gaging station in NW $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 23, T. 1 N., R. 10 W., S. B. B. & M., 0.5 miles above mouth of creek. Discharge from U. S. G. S. | S4293 | 780 | 4.4 | 814 | 3/15/32 | 42.7 | 0.04 | 11 | 247 | 9 | 29 | 0 | 58 | 19 | 13 |
| S4294-F-16 | Southern California Edison Co.'s Canal, N. of Azusa, 0.6 miles N. of Sierra Madre Ave., 300 feet E. of San Gabriel Canyon Road. Sampled from well on Southern California Edison Co.'s power house. Canal intake on San Gabriel River in SE $\frac{1}{4}$, Sec. 31, T. 2 N., R. 10 W., 5 miles above well. Use: Power development and irrigation. During rainy season part of water from power plant is wasted back in San Gabriel River. Discharge is controlled discharge of San Gabriel River and Southern California Edison Co.'s canal from W. S. P. No. 721 and U. S. G. S. unpublished data. | S4294 | 745 | 23 | 113 | 7/3/31 8/12/31 9/10/31 10/16/31 11/2/31 | 35.2 35.8 39.4 36.7 37.8 | ----- 0.04 0.07 0.11 0.09 | 16 12 11 198 198 | 2 2 2 2 198 | 27 8 10 4 198 | 2 4 2 4 6 | 0 0 0 0 0 | 46 48 45 45 51 | 15 16 16 16 13 | 33 32 10 10 11 |
| S4383-F-18 | Big Dalton Creek, NE. of Glendora. Sampled just below Big Dalton Dam in SW $\frac{1}{4}$ of SE $\frac{1}{4}$, Sec. 15, T. 1 N., R. 9 W., S. B. B. & M. Use: Release from storage. Stream at U. S. G. S. gaging station is dry. | S4383 | 1,450 | ----- | 1090 | 6/21/32 | 62.6 | 0.07 | 17 | 332 | 21 | 42 | 1 | 68 | 29 | 28 |

TABLE 5. SURFACE WATERS IN UPPER SAN GABRIEL VALLEY--Continued

| Constituents (parts per million) | | | | | | | | | | | |
|----------------------------------|----------------|-------------------|---|-----------------------------|--|-------------------------------------|--|-------------------------------------|--------------|----------------|-------------|
| Constituents (parts per million) | Percent sodium | Boron ppm | Specific electrical conductance ($\text{K} \times 10^6$ at 25°C) | Na x 100 Ca + Mg + Na | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| | Date | Laboratory number | Discharge in second-feet | Elevation of ground | Location and description | | | | | | |
| 3373-F-17 | 84373 | 1,150 | 0.2 | 645 | 1/18/32 | 80.0 | 0.06 | 19 | 43 | 19 | 20 |
| | | 23 | 732 | 40.3 | 0.04 | 204 | 13 | 1 | 43 | 19 | 20 |
| | | 1 | 810 | 37.3 | 0.02 | 290 | 20 | 34 | 19 | 43 | 19 |
| | | 0.1 | 916 | 4/15/32 | 62.8 | 0.02 | 345 | 25 | 0 | 43 | 19 |
| | | 0.05 | 983 | 5/13/32 | 76.9 | 0.01 | 345 | 25 | 115 | 0 | 43 |
| | | 0.9 | 1,726 | 1/20/33 | 84.9 | 0.06 | 363 | 26 | 265 | 30 | 43 |
| | | 0.3 | 1818 | 2/16/33 | 69.3 | 0.10 | 296 | 23 | 296 | 23 | 43 |
| 4225 F-18 | 84425 | 1,245 | - | 105 | 7/3/31 | 65.9 | 0.03 | 24 | 324 | 18 | 28 |
| | | 285 | 9/10/31 | 72.7 | 0.08 | 21 | 24 | 18 | 77 | 0 | 33 |
| | | 440 | 10/16/31 | 80.9 | 0.10 | 22 | 345 | 18 | 85 | 0 | 40 |
| | | 597 | 12/14/31 | 80.3 | 0.11 | 354 | 20 | 27 | 112 | 1 | 37 |
| | | 649 | 1/18/32 | 66.4 | 0.06 | 333 | 20 | 112 | 1 | 86 | 37 |
| | | 730 | 2/15/32 | 49.7 | 0.06 | 241 | 16 | 16 | 16 | 16 | 47 |
| | | 813 | 3/15/32 | 56.7 | 0.12 | 290 | 20 | 20 | 20 | 20 | 25 |
| | | 914 | 4/15/32 | 53.7 | 0.14 | 340 | 13 | 40 | 0 | 58 | 27 |
| | | 984 | 5/13/32 | 57.4 | 0.08 | 302 | 14 | 14 | 14 | 14 | 25 |
| | | 1094 | 6/15/32 | 58.7 | 0.10 | 314 | 16 | 16 | 16 | 16 | 33 |
| | | 1163 | 7/14/32 | 63.2 | 0.10 | 20 | 336 | 16 | 49 | Tr. | 63 |
| | | 1278 | 8/16/32 | 68.1 | 0.10 | 338 | 21 | 21 | 21 | 21 | - |
| | | 1405 | 9/13/32 | 69.8 | 0.15 | 336 | 20 | 20 | 20 | 20 | - |
| | | 1491 | 10/15/32 | 70.1 | 0.14 | 357 | 16 | 16 | 16 | 16 | - |
| | | 1545 | 11/15/32 | 72.3 | 0.14 | 21 | 290 | 13 | 73 | 0 | 74 |
| | | 1615 | 12/15/32 | 77.6 | 0.12 | 369 | 27 | 27 | 27 | 27 | 39 |
| | | 1703 | 1/17/33 | 75.7 | 0.10 | 339 | 28 | 28 | 28 | 28 | - |
| | | 1819 | 2/16/33 | 53.7 | 0.10 | 259 | 12 | 12 | 12 | 12 | - |
| | | 1819 | 3/14/32 | 231 | 1.38 | 59 | 583 | 460 | 91 | 0 | 99 |
| | | 802 | 3/14/32 | 231 | 1.38 | 59 | 583 | 460 | 91 | 0 | 99 |
| 9226A-13 | 82926 | 210 | - | 1280 | 47 | 6/13/31 | 63.8 | 38 | 250 | 66 | 23 |
| | | 1565 | 223 | 8/13/31 | 65.2 | 0.23 | 41 | 186 | 87 | 28 | 18 |
| | | 538 | 9/15/31 | 63.6 | 0.23 | 43 | 165 | 76 | 23 | 11 | 47 |
| | | 4.3 | 422 | 10/13/31 | 62.5 | 0.28 | 241 | 166 | 76 | 23 | 11 |
| | | 921 | 12/14/31 | 69.0 | 0.19 | 37 | 210 | 87 | 22 | 7 | 52 |
| | | 0 | 644 | 1/20/32 | 67.9 | 0.24 | 247 | 73 | 73 | 73 | 17 |
| | | 2436 | 721 | 2/15/32 | 36.7 | 0.09 | 20 | 168 | 20 | 20 | 20 |
| | | 438 | 803 | 3/14/32 | 53.1 | 0.15 | 189 | 48 | 48 | 48 | 48 |
| | | 8 | 907 | 4/19/32 | 64.5 | 0.35 | 47 | 198 | 73 | 23 | 23 |
| | | 206 | 1043 | 6/16/32 | 66.0 | 0.39 | 183 | 83 | 83 | 83 | 83 |
| | | 164 | 1155 | 7/20/32 | 66.0 | 0.39 | 192 | 77 | 77 | 77 | 77 |
| | | 9 | 1367 | 9/12/32 | 64.9 | 0.30 | 42 | 186 | 67 | 24 | 34 |
| | | 164 | 1474 | 10/11/32 | 67.1 | 0.43 | 180 | 73 | 73 | 45 | 14 |
| | | 143 | 1539 | 11/19/32 | 62.3 | 0.31 | 186 | 69 | 69 | 69 | 69 |
| | | 225 | 1574 | 12/10/32 | 62.2 | 0.29 | 40 | 257 | 257 | 7 | 45 |
| | | 280 | 1681 | 1/13/33 | 69.4 | 0.35 | 149 | 75 | 75 | 7 | 1b |
| | | 333 | 1704 | 1/20/33 | 73.0 | 0.08 | 119 | 13 | 13 | 13 | 13 |
| | | 15+ | 1811 | 2/28/33 | 73.1 | 0.27 | 235 | 87 | 87 | 87 | 87 |
| 9226-13 | 82937 | 197 | 1603 | 46 | 6/13/31 | 36.0 | - | 19 | 214 | 11 | 14 |
| | | 1464 | 123 | 7/13/31 | 36.0 | - | 28 | 198 | 9 | 14 | 41 |
| | | 1354 | 224 | 8/13/31 | 36.0 | - | 20 | 195 | 5 | 11 | 44 |
| | | 1207 | 294 | 9/15/31 | 36.2 | 0.06 | 20 | 192 | 7 | 11 | 44 |
| | | 1350 | 423 | 10/13/31 | 37.0 | 0.09 | 204 | 7 | 7 | 7 | 44 |
| | | 1300 | 591 | 12/14/31 | 37.4 | 0.07 | 21 | 198 | 9 | 15 | 2 |
| | | 1850 | 646 | 1/20/32 | 36.9 | 0.14 | 204 | 9 | 9 | 9 | 9 |
| | | 1925 | 722 | 2/15/32 | 38.4 | 0.16 | 204 | 9 | 9 | 9 | 9 |
| | | 1875 | 804 | 3/14/32 | 37.1 | 0.09 | 201 | 9 | 9 | 9 | 9 |
| | | 1635 | 918 | 4/19/32 | 36.8 | 0.11 | 23 | 198 | 4 | 4 | 45 |
| | | 1625 | 1044 | 6/16/32 | 37.1 | 0.08 | 198 | 9 | 9 | 9 | 9 |
| | | 1550 | 1156 | 7/20/32 | 36.9 | 0.09 | 195 | 7 | 7 | 7 | 44 |
| | | 1625 | 1368 | 9/12/32 | 37.9 | 0.05 | 198 | 9 | 9 | 9 | 9 |
| | | 165 | 1475 | 10/11/32 | 37.6 | 0.17 | 195 | 7 | 7 | 7 | 44 |
| | | 168 | 1540 | 11/19/32 | 36.4 | 0.19 | 198 | 7 | 7 | 7 | 44 |
| | | 166 | 1575 | 12/10/32 | 36.8 | 0.17 | 192 | 9 | 9 | 9 | 44 |
| | | 1682 | 1782 | 1/13/33 | 36.7 | 0.10 | 195 | 9 | 9 | 9 | 44 |
| | | 175 | 1812 | 2/28/33 | 37.4 | 0.10 | 195 | 9 | 9 | 9 | 44 |

TABLE 5. SURFACE WATERS IN UPLR SAN GABRIEL VALLEY—Continued

| Number | Location and description | Elevation of ground | Discharge in second-feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Boron ppm | Percent sodium | Constituents (parts per million) | | | | | | |
|------------|--|---------------------|--------------------------|-------------------|----------|---|-----------|----------------|---------------------------------------|--|------------------------------------|-------------------------------------|---------------------------|-------|----|
| | | | | | | | | | Boronate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | | |
| S2047-1-13 | San Gabriel River, SW of El Monte in Whittier Narrows. Sampled from Cate Ditch at end of Syphon Road, 0.7 miles SW of Burree Road. Intake of ditch is 1,500 feet upstream. Use: Irrigation. Discharge is combined discharge of Cate Ditch, Stanlayer Ditch, and San Gabriel River below Stanlayer Ditch from L. A. C. F. C. D. | 205 | 20 | 422 | 6/13/31 | 46.0 | ----- | 35 | *262 | 4 | 36 | 18 | 40 | | |
| | | | | 13 | 7/13/31 | 47.3 | ----- | 18 | *250 | 9 | 31 | 15 | 22 | | |
| | | | | 225 | 8/13/31 | 44.8 | ----- | 11 | *247 | 9 | 27 | 17 | 13 | | |
| | | | | 14 | 9/15/31 | 35.8 | 0.06 | 192 | 2 | 21 | 1 | 48 | 10 | | |
| | | | | 15 | 10/13/31 | 46.1 | 0.16 | 9 | 253 | 9 | 29 | 2 | 16 | | |
| | | | | 17 | 12/14/31 | 47.6 | 0.05 | 12 | 247 | 11 | 38 | 2 | 11 | | |
| | | | | 25 | 1/20/32 | 45.1 | 0.16 | ----- | 241 | 9 | 69 | 16 | 15 | | |
| | | | | 27 | 6/47 | 47.9 | 0.08 | ----- | 247 | 11 | ----- | ----- | ----- | | |
| | | | | 60 | 7/23 | 2/15/32 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | | |
| | | | | 70 | 8/25 | 3/14/32 | 36.0 | 0.15 | 201 | 4 | 20 | 1 | 52 | | |
| | | | | 805 | 3/14/32 | 36.0 | 0.15 | ----- | 204 | 5 | 20 | 1 | 52 | | |
| | | | | 29 | 9/10 | 4/19/32 | 37.0 | 0.14 | 8 | 204 | 5 | 20 | 1 | 52 | |
| | | | | 22 | 10/45 | 0/16/32 | 36.0 | 0.03 | ----- | 192 | 5 | 20 | 1 | 52 | |
| | | | | 23 | 11/57 | 7/20/32 | 50.4 | 0.05 | 11 | 265 | 7 | 39 | 1 | 72 | |
| | | | | 19 | 13/69 | 9/12/32 | 50.7 | 0.30 | 9 | *268 | 7 | 20 | 2 | 74 | |
| | | | | 25 | 14/76 | 10/11/32 | 52.3 | 0.12 | ----- | 265 | 12 | 12 | 2 | 74 | |
| | | | | 24 | 15/41 | 11/19/32 | 37.0 | 0.10 | ----- | 198 | 4 | ----- | ----- | ----- | |
| | | | | 30+ | 15/76 | 12/10/32 | 55.8 | 0.10 | 7 | 250 | 20 | 51 | 1 | 76 | |
| | | | | 26 | 16/83 | 1/13/33 | 50.8 | 0.08 | ----- | *244 | 9 | ----- | ----- | ----- | |
| | | | | 31 | 17/05 | 1/20/33 | 34.2 | 0.08 | ----- | 152 | 7 | ----- | ----- | ----- | |
| | | | | 90+ | 18/13 | 2/28/33 | 60.2 | 0.09 | ----- | 241 | 4 | ----- | ----- | ----- | |
| S2067-1-13 | San Jose Creek, S. of El Monte. Sampled at L. A. C. F. C. D. gauging station 48, 200 feet upstream from Workman Mill Road bridge. Discharge from L. A. C. F. C. D. | 225 | 0.30 | 272 | 9/2/31 | 83.1 | 0.15 | 29 | 366 | 32 | 114 | 0 | 86 | | |
| | | | | 0.34 | 425 | 10/13/31 | 77.8 | 0.15 | 28 | 351 | 23 | 104 | Tr. | 82 | |
| | | | | 0.17 | 593 | 12/14/31 | 82.2 | 0.14 | 29 | 271 | 41 | 152 | 0 | 78 | |
| | | | | 0.60 | 652 | 1/20/32 | 97.6 | 0.20 | ----- | 357 | 48 | ----- | ----- | ----- | |
| | | | | 5.10 | 724 | 2/15/32 | 54.0 | 0.18 | ----- | 168 | 30 | ----- | ----- | ----- | |
| | | | | 0.25 | 806 | 3/14/32 | 94.8 | 0.13 | ----- | 320 | 45 | ----- | ----- | ----- | |
| | | | | 0.28 | 920 | 4/19/32 | 91.7 | 0.16 | 29 | 363 | 32 | 163 | 0 | 101 | |
| | | | | 0.15 | 1046 | 6/16/32 | 98.3 | 0.16 | ----- | 324 | 48 | ----- | ----- | ----- | |
| | | | | 0.1 | 1477 | 19/11/32 | 100.0 | 0.20 | 29 | 372 | 43 | 174 | 0 | 101 | |
| | | | | 0.2 | 1577 | 12/10/32 | 101.0 | 0.19 | 31 | 375 | 44 | 194 | 0 | 99 | |
| | | | | 6.8 | 1702 | 1/20/33 | 40.4 | 0.12 | ----- | 137 | 20 | ----- | 41 | 79 | |
| | | | | 0.2 | 1814 | 2/28/33 | 89.4 | 0.14 | ----- | 327 | 36 | ----- | 37 | 81 | |
| | | | | 0.2 | ----- | 877 | 4/15/32 | 22.6 | 0.05 | 27 | 98 | 7 | 22 | 4 | 23 |
| | | | | ----- | 878 | 4/15/32 | 22.1 | 0.04 | ----- | 104 | 7 | ----- | 7 | 15 | |
| | | | | ----- | 928 | 5/2/32 | 22.9 | 0.08 | ----- | 113 | 6 | 25 | Tr. | 26 | |
| | | | | 1060 | 6/10/32 | 24.8 | 0.05 | 22 | ----- | ----- | 11 | 11 | 11 | 15 | |

^a Includes small equivalent quantity of Carbonate (CO_3^{2-}).^b Includes small equivalent quantity of Carbonate (CO_3^{2-}).^c Includes small equivalent quantity of Carbonate (CO_3^{2-}).^d Includes small equivalent quantity of Carbonate (CO_3^{2-}).^e Storage for irrigation.^f Day 1.

TABLE 6. WELLS AND SURFACE WATERS IN SAN TIMOTEZO AREA

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|---------|---|-----------|----------------|-------------------------------------|---|--|-----|-----|----|-----|----|
| | | | | | | | specific electrical conductivity ($K \times 10^3$ at 25°C) | Boron ppm | Percent sodium | Chloride radicle (Cl ⁻) | Nitrate radicle (NO ₃ ⁻) | Sulfate radicle (SO ₄ ²⁻) | | | | | |
| E-103-H-28 | Dr. J. J. Weir, Loma Linda; 200 feet S. of Prospect Ave., 360 feet W. of Benton Ave. Use: Domestic and irrigation. Perforated 20-260. | 18044B | 1,150 | 260 | 1219 | 8/ 4/32 | 91.2 | 0.29 | 65 | 348 | 46 | 41 | 16 | 145 | | | |
| E-104-H-28 | Clifford T. Norwood, Bryn Mawr; 20 feet W. of Mountain Ave., extended, 30 feet S. of Bryn Mawr Ave., extended, 0.62 miles S. of Barton Ave. Use: Irrigation. Casing: 14 inches. Perforated 200-633; 637-693; 721-761. | 18056 | 1,312 | *795 | 1241 | 8/ 5/32 | 57.5 | 0.07 | 77 | 165 | 67 | 42 | 2 | 17 | 6 | 100 | |
| V-107k H-29 | Bryn Mawr Water Co., Well 1, Bryn Mawr; 75 feet S. of S. P. R. R. 600 feet W. of California St. Use: Irrigation. Casing: 14 inches. Perforated 200-348; 354-398. | 18075D | 1,215 | *554 | 1221 | 8/ 5/32 | 78.5 | 0.01 | 43 | 336 | 39 | 60 | 27 | 58 | 24 | 83 | |
| E-112g-I-29 | H. L. Hubbard, SW. of Redlands; 800 feet SE. of San Timoteo Canyon Road and S. P. R. R. crossing 2,400 feet SW. of San Timoteo Road, 760 feet E. and 330 feet N. of SW. corner of Sec. 4, T. 2S., R. 3W., S. B. B. & M. Use: Irrigation. Casing: 14 inches. | 18097D | 1,430 | (x) | 1225 | 8/ 5/32 | 81.4 | 0.04 | 49 | 403 | 50 | 38 | 2 | 48 | 27 | 102 | |
| E-112h-I-29 | Chas. H. Cloche, SW. of Redlands; 75 feet S. of S. P. R. R., 800 feet W. of Redlands City limits, 1,000 feet NW. of Redlands S. P. R. R. depot, in San Timoteo Canyon. Use: Irrigation. Casing: 14 inches. Perforated 125-475; 322-549. | 18086A | 1,295 | *568 | 1223 | 8/ 5/32 | 73.0 | 0.04 | 46 | 327 | 41 | 53 | 7 | 49 | 22 | 84 | |
| E-120f-H-30 | City of Redlands, Well 5 (formerly Redlands Water Co., Well 2), Redlands; 300 feet SE. of Crescent Ave., 400 feet NE. of Roosevelt St. (State Highway), 500 feet NE. of reservoir. Use: Municipal. Casing: 10 inches. Gravel 110, 150, 164, 200, 216, 220, 234, 292, 344, 360, 390, 401, 410, 420, 424, 450, 452, 490-506. | 18135D | 1,532 | *510 | (d) | 4/15/31 | - | - | - | 220 | 16 | b25 | - | - | - | - | |
| E-120j-H-30 | City of Redlands, Well 11, Redlands; 800 feet SE. of Crescent Ave., 300 feet NE. of Roosevelt St. (State Highway). NW well. Use: Municipal. Casing: 18 inches. Gravel 101, 131, 132, 174, 190, 194; 291-298; 370-380; 498-514. | 18135H | 1,565 | *x687 | (d) | 4/15/31 | 8/ 4/32 | 40.2 | 0.05 | 43 | 195 | 20 | 38 | 9 | 34 | 10 | 41 |
| E-120k-H-30 | City of Redlands, Well 12, Redlands; 1,000 feet SE. of Crescent Ave., 50 feet NE. of Roosevelt St. (State Highway), E. of reservoir. Use: Municipal. Casing: 20 inches. Gravel 98-124; 263-296; 302-330. | 18135I | 1,568 | *x347 | (d) | 4/15/31 | 8/ 4/32 | 44.1 | 0.01 | 32 | 217 | 18 | b23 | - | 13 | 41 | 34 |
| E-120m-H-30 | City of Redlands, Well 16, Redlands; 0.3 miles SE. of Crescent Ave., 50 feet NE. of Roosevelt St. (State Highway). E. of reservoir. Use: Municipal. Casing: 20 inches. Gravel 170-206; 238, 280, 320, 346, 353. | 18135K | 1,572 | *x414 | (d) | 4/15/31 | - | - | - | 195 | 18 | b27 | - | - | - | - | |
| F-122h-I-30 | Frank Mulvihill, S. of Redlands; 15 feet SW. of San Timoteo Road, 170 feet NW. of Live Oak Canyon Road. Use: Domestic. Case 1/2 in. 7 in. I.D., W. S. P. 142, No. 36, Redlands Quadrangle. | 18139A | 1,553 | x 96 | 1231 | 8/ 5/32 | 78.0 | 0.04 | 44 | 348 | 43 | 76 | 1 | 54 | 26 | 87 | |
| E-130-L-31 | Lower Yucaipa Water Co., SE. of Redlands; 500 feet N. of Live Oak Canyon Road, 1.3 miles SE. of State Highway, 30 feet W. of center line of Sec. 8, T. 2S., R. 2W., S. B. & M. Use: Irrigation. Casing: 12 inches. | 18188 | 1,909 | x210 | 1196 | 7/21/32 | 54.4 | 0.06 | 33 | 290 | 21 | 20 | 2 | 53 | 17 | 46 | |
| E-130b-I-31 | Daniel Webster, SE. of Redlands; 0.4 miles W. of E. line of Sec. 7, T. 2S., R. 2W., S. B. & M. 0.28 miles W. of Live Oak Canyon Road bridge; 400 feet S. of Live Oak Canyon Road and 100 feet S. of S. bank of creek. Use: Irrigation. Casing: 12 inches. | 18179A | 1,553 | 244 | 1195 | 7/21/31 | 53.7 | 0.01 | 37 | 268 | 27 | 25 | 1 | 48 | 16 | 49 | |
| E-132h H-32 | South Mountain Water Co., Well 5, W. of Yucaipa; 60 feet S. of Ave. E. 0.1 miles W. of 12th St. Use: Irrigation. Casing: 10 inches. | 18216D | 2,155 | *x645 | 1197 | 7 21 32 | 46.2 | 0.03 | 21 | 244 | 13 | 24 | 8 | 57 | 1b | 25 | |
| E-133-I-31 | Western Heights Water Co., Well 5, W. of Yucaipa; 60 feet S. of Ave. E. 0.1 miles W. of 12th St. Use: Irrigation. Casing: 10 inches. | 18217 | 2,097 | x788 | 1228 | 8/ 5/32 | 42.8 | 0.01 | 17 | 235 | 9 | 18 | 4 | 57 | 13 | 19 | |
| E-133a-I-31 | Western Heights Water Co., Well 4, W. of Yucaipa; 40 feet S. of Ave. E. 450 feet E. of 15th St. Use: Irrigation. Casing: 12 inches. Gravel 103, 110, 320, 325, 335, 460, 530. | 18207 | 2,074 | *x537 | 1237 | 8/ 5/32 | 44.1 | 0.01 | 21 | 238 | 9 | 25 | 4 | 57 | 13 | 24 | |
| E-135b-I-32 | J. B. Hundley, Yucaipa; 500 feet S. of Yucaipa Blvd., 15 feet W. of 7th St. Use: Irrigation. Casing: 12 inches. | 18236 | 2,407 | x345 | 1200 | 7/21/32 | 41.1 | 0.03 | 18 | 223 | 11 | 17 | 6 | 52 | 14 | 18 | |

TABLE 6. WELLS AND SURFACE WATERS IN SAN TIMOTEZO AREA *Continued*

| Well number | Location and description | Elevation of ground | Location number | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|--|---------------------|-----------------|-----------------------------|-------------------|---------|----------------------------------|---|----------------|--------------------------------|---------------|-------------------------------------|---------------------------|------------------|--------------------|-----------------|
| | | | | | | | Boron ppm | Specific electrical conductance ($K \times 10^8$ at $25^\circ C$) | Percent sodium | Bicarbonate + Mg ($Ca + Mg$) | Chloride + Na | Nitrate + nitrite ($NO_3 + NO_2$) | Sulfate + SO ₄ | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| E-135e-H-32 | Crafton-Macy Water Co., W. of Yucapa; 15 feet N. of Yucapa Blvd., 300 feet W. of Dakota Place. Use: Irrigation. Casing: 22 inches. | 2,255 | 18226B | 450 | 1198 | 7/21/32 | 42.4 | 0.03 | 16 | 229 | 9 | 16 | 6 | 54 | 14 | 17 |
| E-136d-I-32 | Redlands-Yucapa Land Co., Dairy Ranch Well. SW. of Yucapa; 200 feet N. of Riverside County Line, 0.8 miles W. of State Highway, in S _{1/4} , Sec. 10, T.2S., R.2W., S. B., & M. Use: Irrigation. Casing: 20 inches. Perforated 140-378. | 2,247 | 18229C | *x403 | 1198 | 7/21/31 | 50.9 | 0.03 | 29 | 278 | 20 | 22 | 3 | 53 | 17 | 38 |
| E-136f-I-32 | South Mesa Water Co., Well 11. SW. of Yucapa; 150 feet W. of State Highway, 10 feet S. of County Line Road. Use: Irrigation. Casing: 16 inches. Perforated 205-363. | 2,392 | 18230A | *x443 | 1201 | 7/21/32 | 47.4 | 0.07 | 32 | 226 | 16 | 28 | 6 | 46 | 15 | 39 |
| E-138 I-32 | Yucapa Water Co., No 1, Well 12. Yucapa; 15 feet N. of Ave. F, 600 feet W. of 5th St. Use: Irrigation. Casing: 16 inches. Gravel 155-172; 202-240; 260-289; 300-315; 360-378; 389-463, H, 40 feet E. of 4th St., extended. Use: Irrigation. Casing: 16 inches. | 2,420 | 18248 | *x464 | 1202 | 7/21/32 | 42.8 | 0.10 | 22 | 223 | 11 | 25 | 4 | 51 | 11 | 23 |
| E-138b-I-32 | South Mesa Water Co., Well 6. S. of Yucapa; 200 feet N. of Ave. L, on E. line of 4th St., extended. Use: Irrigation. Casing: 16 inches. Gravel 188-206; 208-218; 220-222; 310-316; 338-360; 362-368. | 2,471 | 18248B | *x408 | 1203 | 7/21/32 | 42.6 | 0.07 | 42 | 186 | 16 | 34 | 11 | 37 | 10 | 45 |
| E-138e-I-32 | South Mesa Water Co., Well 4. S. of Yucapa; 300 feet S. of Ave. L on E. line of 4th St., extended. Use: Irrigation. Casing: 16 inches. Gravel 188-206; 208-218; 220-222; 310-316; 338-360; 362-368. | 2,453 | 18249A | *x497 | 1204 | 7/21/32 | 48.1 | 0.05 | 30 | 244 | 27 | 12 | 4 | 43 | 19 | 38 |
| E-139-H-32 | Triple Falls Water Co., Well 2. N. of Yucapa; 20 feet W. of 2d Ave., 0.23 miles N. of Center St. Use: Irrigation. Casing: 16 inches. | 2,842 | 18263 | x650 | 1242 | 8/ 5/32 | 47.4 | 0.09 | 39 | 223 | 9 | 38 | 7 | 45 | 11 | 46 |
| E-139a-H-33 | Section 30 Mutual Water Co., N. of Yucapa; 0.37 miles S. of Carter St., 40 feet E. of 2d Ave. Use: Irrigation. Casing: 16 inches. Gravel 208-202; 204-318; 324-330; 334-358; 376-384; 400-414. | 2,817 | 18264 | *x420 | 1243 | 8/ 5/32 | 60.4 | 0.07 | 33 | 296 | 11 | 51 | 8 | 64 | 16 | 50 |
| E-139f-H-32 | D. T. Clyde, Well 2. N. of Yucapa; 1300 feet W. of 2d Ave. 440 feet S. of 1st st., extended. Use: Irrigation. Casing: 16 inches. | 2,780 | 18264C | 398 | 1244 | 8/ 5/32 | 58.1 | 0.09 | 38 | 277 | 11 | 58 | 7 | 57 | 13 | 56 |
| E-140d-H-33 | G.J. Trowbridge, Yucapa; 1,000 feet N. of D St., 475 feet W. of Pendleton Ave. Use: Domestic and irrigation. Casing: 16 inches. Perforated 275-285, 320-323. | 2,980 | 18275 | *x383 | 1245 | 8/ 5/32 | 49.2 | 0.07 | 25 | 247 | 14 | 32 | 4 | 56 | 14 | 30 |
| E-141-I-33 | Yucapa Water Co. No. 1, Wilkwood Mesa Well. S. of Yucapa; 700 feet S. of Ave. F, 600 feet E. of 10th Ave., extended due S. from Ave. F. On top of mesa. Use: Irrigation. Casing: 16 inches. Perforated 18-72. | 2,812 | 18288 | *x145 | 1205 | 7/21/32 | 47.8 | 0.05 | 27 | 244 | 16 | Tr. | 4 | 49 | 16 | 33 |
| E-145b-I-34 | Beumont Irrigation District Well 20. N. of Beumont, 6,700 feet above Oak Creek Road, in junction with Hwy. Canyon Road, 50 feet S. of W. Ranch Road, 150 feet E. of creek; 1,100 feet N. and 1,900 feet E. of SW. corner of Sec. 2, T.2S., R.1W., S. B., B. & M. Use: Irrigation. Casing: 16 inches. Perforated 18-72. | 4,291 | 18288B | ----- | 1206 | 7/21/32 | 49.0 | 0.06 | 26 | 259 | 18 | 20 | 4 | 51 | 18 | 33 |
| E-146d-I-34 | Beumont Irrigation District Well 19. N. of Beumont, 2,6 miles N. along Oak Creek Road from Orchard St., 150 feet E. of Edgar Creek, 50 feet E. of Well 6; 1,700 feet N. and 200 feet W. of SE. corner of Sec. 10, T.2S., R.1W., S. B., & M. Use: Irrigation. Casing: 16 inches. Perforated 40-255. | 3,660 | 18338D | *x270 | 1207 | 7/20/32 | 39.6 | 0.02 | 18 | 217 | 7 | 22 | 2 | 46 | 16 | 18 |
| E-223-I-30 | J. H. Stewart, SE. of Redlands; 100 feet NE. of S. P. R. R. 200 feet NE. of San Timoteo Canyon Road. Use: Irrigation. Casing: 20 inches. Perforated 75-111, 306-318, 374-386, 416-422, 475. | 1,692 | 1751A | *x540 | 1177 | 7/21/32 | 108 | 0.11 | 57 | 457 | 87 | 81 | 0 | 62 | 23 | 156 |
| E-227d-J-32 | Charles Singleton, SE. of Redlands; 1,700 feet SW. of El Casco Bridge on San Timoteo Canyon Road, 100 feet SW. of E. $\frac{1}{4}$ corner of Sec. 28, T.2S., R.2W., S. B., B. & M. Use: Irrigation. Casing: 12 inches. | 2,044 | 17313 | x238 | 1179 | 7/21/31 | 55.3 | 0.07 | 78 | 247 | 52 | 8 | Tr. | 17 | 5 | 104 |

TABLE 6. WELLS AND SURFACE WATERS IN SAN TIMOTEO AREA Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|----------------------|---|---------------|----------------|-------------------------------------|--|---|----------------|-------------|
| | | | | | | | Specific electrical conductance ($K \times 10$ at 25°C.) | Boron ppm | Percent sodium | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Magnesium (Mg) | Sodium (Na) |
| E-229a-J-32 | W. D. Burns (formerly Tom Singleton), S. of Yucaipa; 1,750 feet W. of the intersection of Burns Ave. and State Highway, 0.75 miles SE. of Ave. L, 800 feet NW. of Burns Ave., extended. Use: Irrigation and domestic. Casing: 10 inches. Perforated: 130-165; 215-616. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1180. | 17330A | 2,294 | *x686 | 1180 | 7/21/32 7/21/32 | 42.4 42.4 | Tr. | 39 43 | 195 195 | 30 23 | 6 7 | 33 35 | 13 7 |
| E-230b-J-32 | J. S. Haskell, S.E. of Redlands; 125 feet NE. of San Timoteo Canyon Road, 1.45 miles SW. of El Cajon Bridge, 300 feet E. and 400 feet N. of SW. corner of See 20, 1/25, R. 2W., S. B. & M. Casing in water trough in feed yard. Use: Stock. Casing: 10 inches. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1181. Wellartesian. | 17333 | 2,113 | x690 | 1181 | 7/21/32 7/21/32 | 39.1 39.0 | 0.08 | 50 51 | 201 207 | 16 9 | 4 4 | 30 30 | 8 6 |
| E-232-J-32 | Dwight B. Cooper, S. of Yucaipa; 200 feet NE. of State Highway 1 mile SE. along State Highway from Ave. L. Use: Irrigation. Casing: 12 inches. Perforated: 178-205; 216-218; 234-235-254; 274-284. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1182. | 17341D | 2,387 | *x285 | 1182 | 7/21/32 7/21/32 | 40.4 40.9 | 0.03 | 37 37 | 195 201 | 28 30 | 6 6 | 28 29 | 17 17 |
| E-233-J-32 | Moreno Mutual Irrigation Co., Well 5, S. of Yucaipa; 1,120 feet SW. of State Highway, 670 feet SE. of Moreno Ave., extended. Casing: 16 inches. Gravel 95-286. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1183. | 17342 | 2,249 | *x288 | 1183 | 7/20/32 7/20/32 | 41.2 40.9 | 0.03 | 28 29 | 217 217 | 16 16 | 8 8 | 39 39 | 16 15 |
| E-233h-J-32 | Moreno Mutual Irrigation Co., Well 2, S. of Yucaipa; 400 feet SW. of State Highway, 0.47 miles SE. of Moreno Ave. Use: Irrigation. Casing: 10 inches. Perforated: 131-221; 206-360. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1184. | 17352D | 2,257 | *x387 | 1184 | 7/20/32 7/20/32 | 35.9 36.1 | 0.01 | 26 26 | 201 204 | 9 11 | 12 8 | 4 7 | 38 38 |
| E-236-J-33 | C. L. Coxington, NW. of Beaumont; 10 feet N. of Woodland Ave., 0.35 miles E. of State Highway. Use: Irrigation. Casing: 12 inches. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1185. | 17362 | 2,348 | x220 | 1185 | 7/20/32 7/20/32 | 37.4 37.4 | Tr. | 20 21 | 204 207 | 13 13 | 8 7 | 6 7 | 13 13 |
| E-237-K-33 | J. D. Huston, W. of Beaumont; 1,600 feet S. of San Timoteo Canyon Road, 0.41 miles E. of where San Timoteo Canyon Road crosses S. P. I. R. 2 miles W. of State Highway. Use: Domestic. Casing: 10 inches. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1186. | 17376 | 2,335 | x72 | 1186 | 7/21/32 7/21/32 | 39.7 39.1 | 0.01 | 38 34 | 189 192 | 27 27 | 1 1 | 6 6 | 39 39 |
| E-240f-J-33 | J. Vincent Hammon, NW. of Beaumont; 400 feet N. of Vineyard St., on E. line of Union Ave., extended. Use: Irrigation. Casing: 10 inches. Use: Irrigation and domestic. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1187. | 17382C | 2,717 | x200 | 1178 | 7/21/32 | 42.2 | 0.02 | 31 | 204 | 25 | 13 | 6 | 32 |
| E-241-J-33 | L. T. Smith, NW. of Benmont; 2,500 feet S. of Beach Ave., 1 mile W. of Nancy Ave., extended, 1,600 feet NW. of State Highway. Use: Irrigation and domestic. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1188. | 17394 | 2,491 | x328 | 1187 | 7/21/32 7/21/32 | 31.3 31.1 | 0.01 | 21 21 | 162 165 | 9 9 | 11 11 | 6 6 | 33 34 |
| E-242-K-33 | Nellie M. Wormley, W. of Beaumont; 250 feet N. of Jackrabbit Trail (San Gorgonio Drive) 0.6 miles W. of S. P. R. R. Use: Irrigation. Casing: 10 inches. Girard 384-388; 454-494. | 17396 | 2,432 | *x1300 | 1188 | Dec. 1923 7/21/32 | 35.6 | 0.02 | 78 78 | 165 182 | 59 6 | 11 2 | 11 2 | 13 11 |
| E-243j-J-33 | Beaumont Irrigation District, Well 38, N. of Beaumont; 1,800 feet N. of Orchard St., 30 feet W. of Nancy Ave., extended. Use: Irrigation. Casing: 12 inches. Perforated: 28-785. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1189. | 17401J | 2,852 | *811 | 1189 | 7/20/32 7/20/32 | 53.9 53.3 | 0.02 | 37 37 | 253 256 | 28 28 | 39 36 | 2 2 | 41 41 |
| E-254j-J-34 | Beaumont Irrigation District, Well 30, N. of Beaumont; 25 feet N. and 700 feet E. from SW. corner of See 14, T. 2S., R. IV, S. B. & M., 50 feet E. of Edgar Creek. Use: Irrigation. Casing: 16 inches. Perforated: 35-60; 74-75; 90-95; 112-176; 190-195; 204-287. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1190. | 17430H | 3,180 | *308 | 1190 | 3/28/29 7/20/32 | 41.5 40.4 | 0.01 | 20 19 | 220 223 | 11 11 | 20 19 | 2 2 | 51 47 |
| E-258-K-34 | Richfield Oil Co., E. of Beaumont; 150 feet N. of State Highway, 0.27 miles E. of Glen Eyre Ave. Use: Domestic. Casing: 12 inches. Located 200-344-350. | 17456 | 2,580 | *353 | 1191 | 7/20/32 | 39.5 | Tr. | 27 | 214 | 20 | 0 | 8 | 16 |

TABLE 6. WELLS AND SURFACE WATERS IN SAN TIMOTEZO AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|---------|---|-----------|---|------------------------------|----------------------------------|-----------------------|
| | | | | | | | Specific electrical conductivity ($K \times 10^3$ at 25°C) | Boron ppm | Percent sodium $Na \times 100$ $(Ca + Mg + Na)$ | Nitrate radicle (NO_3^-) | Sulphate radicle (SO_4^{2-}) | Chloride radicle (Cl) |
| E-2589-K-34 | R. P. Stewart, SE of Beaumont; 300 feet E. of Laurel Road (Glen Eyre Ave., extended), 0.58 miles S. of State Highway. Use: Domestic. Casing: 10 inches. | 17457 | 2,544 | 1295 | 1192 | 7/20/32 | 23.9 | 0.05 | 34 | 113 | 14 | 0 |
| E-2590-K-34 | R. P. Stewart, SE of Beaumont; 200 feet E. of Laurel Road (Glen Eyre Ave., extended), 1.4 miles S. of State Highway. Use: Stock. Casing: 10 inches. | 17459 | 2,478 | x91 | 1193 | 7/20/32 | 34.0 | 0.03 | 29 | 186 | 13 | 1 |
| S17462-J-34 | Highland Springs Health Resort, N.E. of Beaumont. Gravity water from springs in canyon, N.E. of hotel. Sampled at outlet to reservoir N. of hotel, 0.25 miles N. of Grand St. on line of Hillside Ave., extended. Use: Irrigation. Discharge: 0.13 second-feet. | S17462 | 3,200 | ----- | 1194 | 7/20/32 | 20.1 | 0.03 | 25 | 98 | 6 | 2 |
| S18347-I-34 | Beaumont Irrigation District. Edgar Canyon Creek, N. of Beaumont. Gravity flow well, 900 feet N. and 1,900 feet E. of SW corner of Sec. 2, T. 2S, R. IV, S. B. B. & M., 200 feet S. of Well I-1150 (Owner's Well 20). Use: Irrigation. Discharge 0.4 second-feet. | S18347 | 4,285 | ----- | 1209 | 7/20/32 | 35.0 | 0.05 | 16 | 198 | 2 | 19 |

^a Log in files of Division of Water Resources.^b Water levels in files of Division of Water Resources.^c Includes small equivalent quantity of Carbonate (CO_3^{2-}).^d Sulphate (SO_4^{2-}) determined by turbidity method.^e Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^f Analysis by California State Department of Public Health, Bureau of Sanitary Engineering, Riverside, California.^g Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.^h Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|---------|--|-----------|---|-----------------------------------|-----------------------------|---------------------------------|------------------------------|--------------------|-----------------|
| | | | | | | | Specific electrical conductivity ($K \times 10^4$ at $25^\circ C$) | Boron ppm | Percent sodium $\frac{Na \times 100}{Ca + Mg + Na}$ | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) |
| B-1a-H-5 | United States Government Soldiers' Home, Well 11, Sawtelle; 125 feet W. of Sepulveda Blvd., 0.25 miles N. of Wilshire Blvd. Use: Domestic and irrigation. Casing: 12 inches. | 2544 | 343 | x300 | 180 | 7/30/31 | 94.5 | ----- | 19 | 324 | 50 | 127 | 40 | 40 | 46 |
| B-4f-H-5 | City of Santa Monica, Arcadia Plant, Well 1, NE. of Santa Monica Blvd., 50 feet E. of Wilshire Blvd., 30 feet S. Ave. 100; 40 feet S. of Lincoln Blvd., 700 feet NW. of Lake St. Use: Not used. Casing: 20 inches. (Gravel 10 to 30, 111-123, L. A. C. T. C. D.). Analysis from sample 15 feet below surface of water. Lab. No. 120-134; 138-170; from composite log of 5 wells in group. | 2553B | 244 | *200 | 181 | 7/30/31 | 93.6 | ----- | 21 | 250 | 48 | 212 | 2 | 87 | 46 |
| B-5a-I-5 | American States Water Service Co., Well 8, Venice; 800 feet NE. of Lincoln Blvd., 700 feet NW. of Lake St. Use: Not used. Casing: 20 inches. (Gravel 10 to 30, 111-123, L. A. C. T. C. D.). Analysis from sample 15 feet below surface of water. Lab. No. 1302 from bottom of well. | 2553C | 24 | *x200 | (1) | 6/20/31 | 350 | 0.37 | ----- | 100 | 1,044 916 | 277 | - | - | - |
| B-5b-I-5 | City of Santa Monica, Marine New Well 5, Santa Monica; 215 feet SE. of Marine St., 100 feet SW. of 16th St., 20 feet from Old Well 5. Use: Municipal. Casing: 16 inches. Perforated 35-140. | 2559D | 24 | *204 | (1) | 6/13/31 | 7/17/31 | ----- | ----- | 276 | 135 | 308 | 108 | 0 | 51 |
| B-5c-I-5 | American States Water Service Co., Well 6, Venice; 1,025 feet NE. of Lincoln Blvd., 240 feet NW. of Venon St. Use: Not use. Casing: 18 inches. Perforated 47-105. Sampled from bottom of well. | 2559A | 22 | *140 | 1363 | 9/6/32 | 473 | 0.18 | ----- | 25 | 277 | 119 | 178 | 0 | 69 |
| B-5d-I-5 | Francisco M. Cola, SE. of Santa Monica; 140 feet W. of 23rd St., 20 feet S. of Dewey St. Use: Irrigation. | 2559E | 23 | *182 | (1) | 6/13/31 | 4/30/32 | ----- | ----- | 278 | 142 | 278 | - | - | - |
| B-5e-I-5 | City of Santa Monica, Marine Well 1, Santa Monica; 340 feet SE. of Marine St., 200 feet SW. of 16th St. Use: Municipal. Casing: 18 inches. Perforated 28-100. | 2559F | 23 | 200 | (1) | 7/17/31 | 3/25/32 | 0.22 | 24 | 304 | 46 | 328 | 57 | - | - |
| B-5f-I-5 | City of Santa Monica, Marine New Well 2, Santa Monica; 390 feet SE. of Marine St., 25 feet SW. of 16th St., 18 feet from Old Well 2. Use: Municipal. Casing: 16 inches. (Gravel 20, from log of Old Well 2. | 2559H | 25 | *139 | (1) | 7/17/31 | 153 | ----- | ----- | 201 | 1,260 | - | - | - | - |
| B-5g-I-5 | City of Santa Monica, Well 4, Santa Monica; 50 feet SE. of Marine St., 350 feet SW. of 16th St. Use: Municipal. Casing: 18 inches. Perforated 25-115. | 2566A | 141 | *380 | 176 | 7/30/31 | 69.6 | ----- | 29 | 238 | 276 | b130 | - | - | - |
| B-5h-I-5 | L. F. Arnold, SE. of Sawtelle; 375 feet SE. of Sawtelle Blvd., 50 feet SW. of Richland Ave. Use: Irrigation and domestic. Casing: 14 inches. (Gravel 20, 314-334). | 2569 | 56 | *225 | (1) | 10/7/30 | 6/8/31 | ----- | 25 | 332 | 97 | b166 255 | Tr | 140 | 64 |
| B-7f-I-6 | American States Water Service Co., Pacific Plant, Well 1, SW. of Culver City; 75 feet SE. of Pacific Ave., 120 feet N. of Wasatch Ave., 50 feet N. of Well 2. Use: Municipal. Casing: 10 inches. (Gravel 17-106). | 2596 | 179 | *x263 | (1) | 4/20/32 | 7/30/31 | 99.4 | ----- | 268 | 84 | b92 | - | - | 54 |
| B-8a-I-6 | American States Water Service Co. (formerly Peoples Water Co.), Plant 1, Well 3, Palms; 20 feet SW. of Manning Ave., 175 feet SE. of Woodline St. Use: Domestic. Casing: 16 inches. (Gravel 125-137; 173-170). | 2578D | 100 | *x388 | (2) | 7/17/31 | ----- | ----- | 296 | 247 | 38 | 115 | 4 | 87 | 32 |
| B-9a-I-6 | City of Santa Monica, Charnock Well 2, E. of Santa Monica; 407 feet SW. of Sawtelle Blvd., 171 feet NW. of Westminster Ave., 140 feet SW. of Corinth Ave. Use: Municipal. Casing: 14 inches. Perforated 4-10, 140-170, 170-197, 209, 227, 243, 260, 305, 350, 380. | 2578E | 98 | *393 | (1) | 7/17/31 | ----- | ----- | 278 | 67 | b123 | - | - | - | - |
| B-10c-I-6 | City of Santa Monica, Charnock Well 2, E. of Santa Monica; 705 feet SW. of Sawtelle Blvd., 151 feet NW. of Westminster Ave., 71 feet SW. of Purdie Ave. Use: Municipal. Casing: 18 inches. Perforated 104-117, 185-200, 230-305, 335, 351. | 2578F | 95 | *386 | (1) | 7/17/31 | ----- | ----- | 288 | 56 | b132 | - | - | - | - |
| B-10f-I-6 | City of Santa Monica, Charnock Well 3, E. of Santa Monica; 825 feet SW. of Sawtelle Blvd., 160 feet NW. of Westminster Ave., 67 feet SE. of Butler Ave. Use: Municipal. Casing: 18 inches. Perforated 100, 102, 102-170, 102-230, 260-300, 327, 330. | - | - | - | - | - | - | - | - | 273 | 76 | b150 | - | - | - |

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|------|---|-----------------------------|----------------------|-----------------------------|---------------------------------|------------------------------|-------------------|
| | | | | | | Specific electrical conductivity ($K \times 10^8$ at 25°C) | Boron ppm | Percent sodium | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) |
| B-10g-I-6 | City of Santa Monica Charnock Well 4. E. of Santa Monica; 1,015 feet SW of Sawtelle Blvd., 140 feet NW of Westminster Ave., 74 feet SW. of Butler Ave. Use: Municipal. Casing 18 inches. Perforated 140-350. | 2578G | 95 | *468 | (d) | 7/17/31 | - | - | 298 | 65 | b144 | - |
| B-10h-I-6 | City of Santa Monica Charnock Well 5. E. of Santa Monica; Ave., 113 feet SE. of Corinth Ave. Use: Municipal. Casing: 163 feet SW. of Sawtelle Blvd., 110 feet NW of Westminster Ave. Perforated 170-200; 215-230; 257-300. | 2578H | 105 | *382 | (d) | 7/17/31 | - | - | 298 | 43 | 186 | - |
| B-10i-I-6 | City of Santa Monica Charnock Well 6. E. of Santa Monica; 350 feet SW. of Sawtelle Blvd., 24 feet NW. of Westminster Ave., 24 feet SW. of Corinth Ave. Use: Municipal. Casing: 18 inches. Perforated 178-198; 220-238. | 2578I | 101 | *384 | (d) | 7/17/31 7/30/31 | 83-3 | 23 | 293 274 | 53 52 | 189 134 | 4 |
| B-10j-I-6 | City of Santa Monica Charnock Well 7. E. of Santa Monica; 560 feet SW. of Sawtelle Blvd., 24 feet NW. of Westminster Ave. Use: Municipal. Casing: 18 inches. Perforated 174-200; 222-240. | 2578J | 98 | *x400 | (d) | 7/17/31 | - | - | 273 | 59 | b118 | - |
| B-10k-I-6 | City of Santa Monica Charnock Well 8. E. of Santa Monica; 750 feet SW. of Sawtelle Blvd., 24 feet NW. of Westminster Ave., 132 feet SW. of Fulford Ave. Use: Municipal. Casing: 18 inches. Perforated 140-130; 225-270; 305-312. | 2578K | 96 | *390 | (d) | 10/ 7/30 6/ 7/31 (d) | 83-3 7/31 | - | 289 293 278 | 50 43 51 | - | - |
| B-10n-I-6 | City of Los Angeles Berryman Well 1. SW. of Culver City, 100 feet SW. of Berryman Ave., 500 feet SE. of Washington Blvd. [see: Municipal]. | 2589A | 43 | x | (f) | 4/ 3/30 8/ 8/32 | 94.3 | 0.08 | 227 324 | 35 77 | 131 131 | 0 |
| B-10o-I-6 | American States Water Service Co. (formerly Peoples Water Co.), Plant 3. Well 6. Culver City; 265 E. of Sepulveda Blvd., 388 feet N. of Washington Blvd. Use: Municipal. Casing: 18 inches. Perforate 1164-222. | 2589B | 53 | *x402 | (f) | 10/ 7/30 | - | - | 281 | 59 | - | - |
| B-10p-I-6 | Guy Beringhely, Palms; 125 feet W. of Overland Blvd., 190 feet N. of Venice Blvd. Use: Domestic. Casing: 10 inches. | 2598 | 84 | x80 | 1364 | 9/ 7/32 | 53.3 | 0.16 | - | 241 | 46 | - |
| B-13f-I-7 | Leo Youngworth, S. of Culver City; 1,300 feet E. of Overland Ave., from point 0.33 miles SE. of Jefferson Blvd., 80 feet S. of channel in bottom of small canyon. Use: Irrigation. | 2610A | 135 | - | - | 892 | 3/25/32 | 232 | 0.78 | 445 | 467 | 182 |
| B-23a-I-5 | Venice Consolidated Water Co., Well 10. Venice; 75 feet N. of Venice Blvd., 40 feet W. of P. Mar. Ave. Use: Domestic municipal, discontinued in 1932. Casing: 16 inches. Gravel and sand 7-263. Lab. No. 1263 collected with depth sampler from bottom of well. | 1240A | 27 | *x270 | (f) | 4/ 3/30 1263 | 8/ 9/32 117 | 0.08 | 23 287 | 466 287 | 195 124 | - |
| B-23b-I-5 | W. M. Humes, Venice; 120 feet SW. of Lincoln Blvd., 150 feet SE. of Conner D'Alene. Use: Irrigation. Casing: 12 inches. Perforated from bottom up to top of water. | 1240B | 24 | *210 | (f) | 4/ 3/30 10/ 9/31 | 248 | 0.14 | 25 351 | 434 351 | 64 462 | 325 |
| B-23c-I-5 | Venice Consolidated Water Co., Well 11. Venice; 75 feet S. of Zanja St., 30 feet W. of Walnut St. Use: Municipal, standby. Casing: 18 inches. (Crack) 55-67; 85-97; 127-136-211-217. | 1250 | 20 | *x277 | (f) | 10/ 7/30 | - | - | 336 | 188 | - | - |
| B-23d-I-6 | Venice High School, Well 1. Venice; 500 feet S. of Venice Blvd., 600 feet E. of Waigrove St. Use: Domestic and irrigation, standby plant. L. A. D. of W. & F. No. 9-B-16. | 1250A | 35 | 200 | (e) | 5/ 2/30 3/ 2/31 (e) | - | - | 24 254 34 | 286 272 77 | 65 60 77 | 204 218 516 |
| B-23e-I-6 | Brentwood Dairy, Venice; 150 feet E. of Del Rey Ave., 200 feet S. of Beach St. Use: Industrial, cooling and washing bottles. | 1250B | 20 | 200 | (f) | 4/ 1/30 10/ 9/31 | - | - | 458 309 320 | 131 604 770 | 125 492 541 | 195 117 Tr. |
| | | | | | | (f) | 6/ 8/31 3/ 23/32 883 | 0.14 0.24 0.24 | 25 24 24 | 317 781 546 | 302 145 | 24 26 145 |
| | | | | | | | 4/ 29-32 6/ 3/32 1036 | 0.12 0.12 0.12 | 23 346 330 | 317 734 763 | 113 145 | 59 56 199 |
| | | | | | | | 7/ 5/32 1140 | 0.09 | 308 | 719 | 100 | 28 |
| | | | | | | | 8/ 8/32 1264 | 0.15 319 | 314 669 | 485 | 151 | 207 |
| | | | | | | | 10/ 10/32 1464 | 0.16 294 | 311 596 | 1 | 112 | 179 |
| | | | | | | | 11/ 13/32 1529 | 0.16 283 | 311 566 | 381 | 1 | 265 |
| | | | | | | | 12/ 13/32 1590 | 0.23 | 308 | 286 | 1 | 112 |

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|----------|--|--|-----------------------------------|--|--------------------------|---------------------------------------|---------------------------------------|
| | | | | | | | Boron pyrite (K x 10 ⁻⁴ at 25°C) | Specific electrical conductivity (K x 10 ⁻⁴ at 25°C) | Percent sodium Na + Mg + Na | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) |
| B-23I-1-6 | Venice High School Well 2, Venice; 300 feet S. of Venice Blvd., 350 feet E. of Walgreen's, etc., 1/2 mile N. of W. L. Tusc. Domestic and irrigation. Casing: 6 inches. L. A. D. of W. & P. No. 9-B-17. | 1250C | 35 | 250 | (e) | 11/ 5/29 | ... | ... | 40 | 373 | 64 | 214 | ... |
| | | | | | (e) | 12/ 6/30 | ... | ... | 9 | 300 | 64 | 297 | 104 |
| | | | | | (e) | 4/ 2/30 | ... | ... | 13 | 318 | 72 | 209 | 166 |
| | | | | | (e) | 9/ 3/30 | ... | ... | 34 | 304 | 68 | 207 | 165 |
| | | | | | (e) | 10/ 2/30 | ... | ... | 22 | 314 | 66 | 206 | 112 |
| | | | | | (e) | 10/ 7/30 | ... | ... | 63 | 316 | 66 | 206 | 113 |
| | | | | | (e) | 11/ 8/30 | ... | ... | 50 | 316 | 60 | 205 | 29 |
| | | | | | (e) | 12/ 2/30 | ... | ... | 50 | 273 | 60 | 205 | 57 |
| | | | | | (e) | 1/ 5/31 | ... | ... | 25 | 298 | 58 | 208 | 29 |
| | | | | | (e) | 1/ 8/31 | ... | ... | 43 | 298 | 60 | 211 | 123 |
| | | | | | (e) | 2/ 9/31 | ... | ... | 29 | 300 | 64 | 206 | 108 |
| | | | | | (e) | 4/ 1/31 | ... | ... | 36 | 261 | 62 | 210 | 112 |
| | | | | | (e) | 6/ 8/31 | ... | ... | 37 | 331 | 82 | 212 | 113 |
| | | | | | (e) | 10/ 1/31 | 101 | 0.07 | 25 | 307 | 60 | 201 | Tr. |
| | | | | | (e) | 12/ 8/31 | ... | ... | 320 | 59 | 201 | ... | 45 |
| | | | | | (e) | 4/27/32 | ... | ... | 312 | 64 | 201 | ... | 45 |
| | | | | | (e) | 6/ 8/31 | ... | ... | 322 | 64 | 201 | ... | 45 |
| | | | | | (e) | 6/ 8/31 | ... | ... | 281 | 1,058 | ... | ... | ... |
| B-23m-I-6 | Frank Con. Venice; 150 feet E. of Del Rey Ave., 250 feet S. of Beach Ave., 30 feet SE. of B-23e-I-6. Use: Domestic. Casing: 12 inches. | 1250D | 20 | - | - | - | - | - | - | - | - | - | - |
| | | | | | (e) | 11/ 5/29 | ... | ... | 33 | 503 | 144 | 518 | 222 |
| | | | | | (e) | 12/ 6/29 | ... | ... | 14 | 504 | 156 | 562 | 290 |
| | | | | | (e) | 5/ 2/30 | ... | ... | 31 | 426 | 144 | 357 | 79 |
| | | | | | (e) | 9/ 3/30 | ... | ... | 12 | 300 | 64 | 355 | 160 |
| | | | | | (e) | 10/ 2/30 | ... | ... | 12 | 447 | 148 | 555 | 112 |
| | | | | | (e) | 11/ 8/30 | ... | ... | 24 | 460 | 160 | 444 | 83 |
| | | | | | (e) | 2/ 9/31 | ... | ... | 34 | 483 | 177 | 395 | 77 |
| | | | | | (e) | 3/ 2/31 | ... | ... | 35 | 508 | 234 | 591 | 177 |
| | | | | | (e) | 4/ 1/31 | ... | ... | 37 | 497 | 234 | 596 | 177 |
| | | | | | (e) | 10/ 1/31 | 189 | 0.17 | 27 | 473 | 180 | 408 | 11 |
| | | | | | (e) | 4/ 2/30 | ... | ... | 27 | 497 | 234 | 596 | 177 |
| | | | | | (e) | 6/ 3/30 | ... | ... | 14 | 429 | 125 | 358 | 245 |
| | | | | | (e) | 12/ 2/30 | ... | ... | 46 | 472 | 206 | 661 | 245 |
| | | | | | (e) | 10/ 1/31 | 226 | 0.17 | 26 | 525 | 192 | 573 | 35 |
| | | | | | (e) | 4/ 1/30 | ... | ... | 311 | 518 | 235 | 235 | 91 |
| | | | | | (e) | 10/ 9/31 | 292 | 0.18 | 28 | 518 | 266 | 835 | 39 |
| | | | | | (e) | 4/29/32 | ... | ... | 697 | 697 | 327 | 312 | 97 |
| | | | | | (e) | 4/ 1/30 | ... | ... | 996 | 557 | ... | ... | ... |
| | | | | | (e) | 4/29/32 | ... | ... | 633 | 291 | ... | ... | ... |
| B-24a-J-6 | Del Rey Land and Water Co., Well 2, E. of Venice; 1,000 feet SE. of intersection of Thatcher Drive and Inglewood line of P. E. Ry. from Venice, 200 feet SW. of P. E. Ry. Use: Irrigation. Casing: 12 inches. L. A. D. of W. & P. No. 9-B-21. | 1251B | 14 | 176 | (e) | 1/ 8/30 | ... | ... | 21 | 488 | 130 | 339 | 33 |
| | | | | | (e) | 4/ 2/30 | ... | ... | 5 | 429 | 125 | 358 | 262 |
| | | | | | (e) | 6/ 3/30 | ... | ... | 14 | 467 | 160 | 581 | 245 |
| | | | | | (e) | 12/ 2/30 | ... | ... | 46 | 472 | 206 | 661 | 264 |
| | | | | | (e) | 10/ 1/31 | 226 | 0.17 | 26 | 525 | 192 | 573 | 35 |
| | | | | | (e) | 4/ 1/30 | ... | ... | 311 | 518 | 235 | 235 | 91 |
| | | | | | (e) | 10/ 9/31 | 292 | 0.18 | 28 | 518 | 266 | 835 | 39 |
| | | | | | (e) | 4/29/32 | ... | ... | 697 | 697 | 327 | 312 | 97 |
| | | | | | (e) | 4/ 1/30 | ... | ... | 996 | 557 | ... | ... | ... |
| | | | | | (e) | 4/29/32 | ... | ... | 633 | 291 | ... | ... | ... |
| B-24b-J-6 | Mr. Hippert, E. of Venice; 80 feet NW. of Maxella Ave., 200 feet NE. of Del Rey Ave. Use: Irrigation. Perforated 25-45; 63-73. | 1251D | 19 | * 79 | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/29/32 | ... | ... | ... | ... | ... | ... | ... |
| B-24j-J-6 | Los Angeles County Flood Control District, Test Well 4, SE. of Venice; 500 feet SW. of junction of Jefferson Blvd. and Culver Blvd., W. of P. E. Ry. Use: L. A. C. F. C. D. test well. Casing: 6 inches. Sampled at 20, 45, 65, 85, 105, and 110 feet depths, respectively. | 1253 | 5 | 110 | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/20/31 | ... | ... | ... | ... | ... | ... | ... |
| B-24c-J-6 | Edgemar Farms, E. of Venice; 80 feet SE. of Maxella Ave., 50 feet SW. of Del Rey Ave. Use: Domestic and dairy stock. | 1251C | 17 | 185 | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 292 | 0.18 | 28 | 311 | 518 | 266 | 835 |
| | | | | | (e) | 4/29/32 | ... | ... | 697 | 697 | 327 | 312 | 97 |
| | | | | | (e) | 4/ 1/30 | ... | ... | 996 | 557 | ... | ... | ... |
| | | | | | (e) | 4/29/32 | ... | ... | 633 | 291 | ... | ... | ... |
| B-24d-J-6 | Washington Park Mutual Water Co., Venice; 100 feet S. of Washington Blvd. and halfway between McConnell and Mildred Sts. Use: Domestic. Casing: 12 inches, in 32-foot pit. | 1260 | 41 | x108 | (e) | 4/ 3/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 7/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 6/ 8/31 | 98.6 | 0.11 | 27 | 284 | 53 | 151 | 14 |
| | | | | | (e) | 10/ 9/31 | 98.6 | 0.11 | 27 | 284 | 53 | 151 | 14 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | 2 |
| | | | | | (e) | 4/27/32 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 4/ 1/30 | ... | ... | ... | ... | ... | ... | ... |
| | | | | | (e) | 10/ 9/31 | 95.4 | 0.16 | 24 | 284 | 78 | 167 | |

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity (K_x^{10} at 25°C) | Constituents (parts per million) | | | | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|-----------------------|--|----------------------------------|---|-------------------------------|-------------------------------|-------------------------------|----------------------------|---------------------------|---------------------------|
| | | | | | | | Boron ppm | Precipitated sodium No. x 100 $(Ca + Mg + Na)$ | Chloride radicle (Cl) | Sulfate radicle (SO_4) | Nitrate radicle (NO_3) | | | |
| B-2b, J 6 | Brentwood Dairy, E. of Venice; 40 feet N. of Maxella Ave., 100 feet E. of Ocean Park Ave. Use: Stock and irrigation. Not used for drinking. | 1261 | 22 | (1) | 4/1/30 | 414 10/9/31 (1) 4/20/32 | 0.43 | 35 | 894 337 1,060 390 | 674 133 | 310 | 152 | | |
| B-2ba, J 6 | H. Michael Well 2, E. of Venice; 20 feet S. of Maxella Ave., 30 feet E. of Redwood Drive. Use: Irrigation. Casing: 14 inches. Perforated 120-124; 150-171. L. A. D. of W. & P. No. 9-B-23. | 1261A | 24 | *207 | (1) | 4/1/30 (1) 3/2/31 | ... | 56 | 310 355 355 121 | 67 288 | 72 | 38 | | |
| B-2bi, J 6 | N. Nojima Lessee, E. of Venice; 30 feet S. of Panama St., 150 feet W. of Beethoven St., 550 feet E. of Alia Read. Use: Irrigation. | 1271 | 13 | 175 | (1) | 4/1/30 (1) 10/13/30 (1) 4/29/32 | 0.19 | ... | 412 83 449 135 | ... | ... | ... | | |
| B-2bo, J 6 | Mr. Mitani Lessee, E. of Venice; 1,700 feet N.E. of intersection of P. E. Ry. and Culver Blvd. at Alia Station, 100 feet S.E. of Culver Blvd.; 200 feet SW. of Mozart Ave. Use: Irrigation. L. A. D. of W. & P. No. 9-B-26. | 1271A | 16 | (1) | 4/1/30 (1) 10/2/30 | ... | 37 | 446 178 405 178 | 898 357 | ... | 196 | 28 | | |
| B-2bi*, J 6 | H. Michael Well 1, E. of Venice; 540 feet S. of Maxella Ave., 150 feet W. of Michael St., projected southerly. Use: Irrigation. Casing: 14 inches. Perforated from 170 feet up to top of water. L. A. D. of W. & P. No. 9-B-24. | 1261B | 22 | *201 | (1) | 11/5/20 (1) 12/6/20 | 42 | 430 196 35 29 | 124 263 404 296 | 130 121 133 40 | 34 | 163 | | |
| B-26f, J 6 | Del Rey Land and Water Co., E. of Venice; 100 feet N. of P. E. Ry. to Playa Del Rey and 50 feet W. of Y track at Alia Station on P. E. Ry. Use: Irrigation. Casing: 14 inches. Perforated 35-50. Casing: 14 inches. Perforated 35-50. Water has H.S. odor. | 1271C | 10 | x150 | 330 | 10/1/31 | 158 | 0.24 | 31 518 29 404 | 174 130 130 121 | 0 40 | 60 | 126 | |
| B-2ib, J 6 | Del Rey Land and Water Co., Well 3, E. of Venice; 150 feet S. of P. E. Ry., 1,600 feet easterly along P. E. Ry. to Venice from intersection with Culver Blvd. Use: Irrigation. Casing: 12 inches. Water has H.S. odor. | 1261C | 10 | 140 | 375 | 10/1/31 | 207 | 0.28 | 31 522 265 53 | 163 486 906 899 | 27 172 373 369 | ... | 107 | |
| B-27a, J 6 | Henry J. Kidson, E. of Venice; 0.27 miles NW. of Lincoln Blvd. E. of Bay St., 80 feet S. of S. levee of Ballona Creek. Use: Domestic and irrigation. Casing: 12 inches. | 1272A | 10 | 20 | 419 | 10/9/31 (1) 4/20/32 | ... | ... | 163 486 906 899 | 172 1 | 149 79 | 83 | 356 | |
| B-27b, J 6 | Henry J. Kidson, E. of Venice; 0.36 miles NE. of Lincoln Blvd. (Hosey Highway); 0.22 miles NW. of Jefferson Blvd., 550 feet E. of Bay St. on S. levee of Ballona Creek. Use: Irrigation. Casing: 14 inches. L. A. D. of W. & P. No. 9-B-40. | 1272B | 12 | 150 | (1) | 4/3/30 (1) 9/3/30 (1) 10/2/30 | ... | 29 548 23 564 36 560 | 96 108 108 106 11 106 | 28 24 107 98 129 0 | 116 91 107 91 129 40 | 84 45 113 50 140 37 | 81 50 | |
| B-27c, J 6 | Joseph Messner, La. Ballona Ranch Well 7, Plant 4, SE. of Venice; 0.15 miles SW. of Jefferson Blvd., 0.22 miles SW. of Mozart St. Use: Irrigation. Casing: 16 inches. Perforated 40-68. L. A. D. of W. & P. No. 9-B-41. | 1272c | 9 | *176 | (1) | 10/2/29 (1) 12/5/29 (1) 1/7/30 (1) 4/2/30 | 0.30 | 39 616 39 616 | 405 400 405 400 132 120 | 172 131 172 131 132 120 | 149 117 149 117 132 120 | 117 91 117 91 117 91 | 85 45 113 50 140 37 | 84 45 113 50 140 37 |

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

| Well number | Location and description | Elevation of ground | Location number | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance (K _x 10° C) | Boron ppm | Constituents (parts per million) | | | | | |
|-------------|---|---------------------|-----------------|-----------------------------|-------------------|----------|--|-----------|---|--|--|---------------------------------------|--------------------------|---|
| | | | | | | | | | Percent sodium Na x 100 (Ca + Mg + Na) | Bicarbonate radicle (HCO ₃) | Sulphate radicle (SO ₄) | Nitrate radicle (NO ₃) | Chloride radicle (Cl) | |
| B-274-J-6 | Joseph Messner, La Ballona Ranch Well 9, Plant 7, SE. of Venice, 0.14 miles NE. of Lincoln Blvd. (Roosevelt Highway), 0.45 miles SE. of Jefferson Blvd. Use: Irrigation. Casing: 10 inches. Perforated 55-67. | 1277 | 20 | *150 | (4) | 4/3/30 | ... | ... | 51.7 | 263 | ... | ... | ... | |
| | | | | | (1) | 10/13/30 | ... | ... | 34.4 | 153 | ... | ... | ... | |
| | | | | | (1) | 6/8/31 | ... | ... | 49.9 | 178 | ... | ... | ... | |
| | | | | | (1) | 10/9/31 | 160 | 0.22 | 30 | 430 | 172 | 294 | 0 | |
| | | | | | 421 | 3/30/32 | 192 | 0.34 | 28 | 473 | 209 | 414 | 6 | |
| | | | | | 897 | 5/12/32 | 175 | 0.44 | 29 | 451 | 190 | 327 | 6 | |
| | | | | | 971 | 6/3/32 | 181 | 0.28 | ... | 460 | 195 | 152 | 82 | |
| | | | | | 1030 | 6/3/32 | 175 | 0.24 | ... | 454 | 181 | ... | ... | |
| | | | | | 1141 | 7/6/32 | 175 | 0.16 | 31 | 457 | 181 | 318 | 6 | |
| | | | | | 1265 | 8/8/32 | 172 | 0.26 | ... | 442 | 170 | ... | ... | |
| | | | | | 1358 | 9/6/32 | 169 | 0.25 | ... | 442 | 170 | ... | ... | |
| | | | | | 1465 | 10/10/32 | 166 | 0.25 | ... | 451 | 172 | 301 | 4 | |
| | | | | | 1530 | 11/3/32 | 170 | 0.33 | 30 | 479 | 190 | ... | ... | |
| | | | | | 1691 | 12/13/32 | 180 | 0.33 | ... | ... | ... | ... | ... | |
| B-274-J-6 | Del Rey Land and Water Co., Windmill Well, E. of Venice; 900 feet S. of P. E. Ry. to Venice; 800 feet NW. of Culver Blvd. Use: Hothouse and washing vegetables. Casing: 12 inches. | 1262 | 8 | x120 | 376 | 10/1/31 | 186 | 0.30 | 38 | 656 | 213 | 171 | 0 | |
| | | | | | 378 | 10/1/31 | 220 | 0.30 | 40 | 662 | 373 | 112 | 0 | |
| B-274-J-6 | Joseph Messner, Plant 5, SE. of Venice; 0.08 miles SE. of Lincoln Blvd., 0.25 miles NE. of Lincoln Blvd. (Roosevelt Highway). Use: Irrigation. Water has H ₂ S odor. | 1272D | 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| B-290b-1-6 | E. S. Merrill Sanitarium, E. of Venice; 100 feet S. of Culver Blvd.; 600 feet E. of Centinella Ave. Use: Domestic. Casing: 12 inches. | 1290B | 31 | x120 | (1) | 6/13/31 | 157 | 0.19 | 36 | 382 | 294 | 216 | 0 | |
| | | | | | 411 | 10/9/31 | 171 | 0.24 | 35 | 393 | 259 | 231 | 4 | |
| | | | | | 880 | 3/25/32 | 187 | 0.26 | 33 | 403 | 304 | 334 | 7 | |
| | | | | | (1) | 4/27/32 | 187 | 0.26 | 33 | 403 | 304 | 215 | 7 | |
| | | | | | 972 | 5/12/32 | 187 | 0.26 | 33 | 400 | 250 | 154 | 7 | |
| | | | | | 1037 | 6/3/32 | 172 | 0.23 | ... | 400 | 213 | ... | ... | |
| | | | | | 1142 | 7/5/32 | 163 | 0.23 | ... | 400 | 219 | 7 | 57 | |
| | | | | | 1266 | 8/8/32 | 163 | 0.22 | 36 | 396 | 213 | 127 | 56 | |
| | | | | | 1407 | 9/12/32 | 157 | 0.17 | 393 | 396 | 204 | 144 | 60 | |
| | | | | | 1466 | 10/10/32 | 159 | 0.23 | ... | 396 | 180 | 209 | 69 | |
| | | | | | 1531 | 11/3/32 | 152 | 0.25 | 37 | 393 | 187 | 120 | 51 | |
| | | | | | 1592 | 12/13/32 | 152 | 0.27 | ... | 390 | 187 | ... | ... | |
| B-30-J-6 | Mesmer City Corporation Ltd., Mesmer City, Well 1, E. of Venice; 150 feet E. of Inglewood Blvd., 120 feet S. of Port Road. Use: Municipal. Casing: 10 inches. | 1291 | 20 | x1402 | (1) | 6/13/31 | 92.4 | ... | 23 | 314 | 184 | 0 | 59 | |
| | | | | | 182 | 7/30/31 | ... | ... | 322 | 43 | ... | ... | ... | |
| | | | | | (1) | 4/29/32 | ... | ... | ... | ... | ... | ... | ... | |
| B-31-J-6 | Loyola University, SE. of Venice; 70 feet E. of Fordham Road, 0.35 miles N. of 80th St., 0.75 miles N. of Manchester Ave., on University Grounds. Use: Domestic and irrigation. Casing: 18 inches. | 1292 | 136 | x400 | (1) | 10/13/30 | ... | ... | 362 | 79 | ... | ... | ... | |
| | | | | | (1) | 6/8/31 | ... | ... | 362 | 87 | ... | ... | ... | |
| | | | | | 895 | 3/29/32 | 88.0 | 0.24 | 45 | 372 | 67 | 39 | 1 | |
| | | | | | 184 | 7/31/31 | 176.2 | 28 | 436 | 142 | 437 | 0 | 153 | |
| B-31b-J-6 | Mesmer City Corp., Ltd. (formerly Joseph Mesmer), Mesmer's La Ballona Ranch Well 6, Plant 2, SE. of Venice; 500 feet W. of Centinella Blvd., 200 feet E. of Grosvenor Blvd., 50 feet S. of Gabrey St., 0.2 miles S. of Jefferson Blvd. Use: Irrigation. Casing: 16 inches. Perforated 30-75. Water has H ₂ S odor. | 1292A | 13 | *200 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | | | | | 239 | 381 | 10/1/31 | 124 | 0.17 | 38 | 497 | 130 | 95 | 0 |
| | | | | | 236 | 8/19/31 | 193.5 | ... | 59 | 360 | 350 | 201 | 6 | |
| S2618-I-7 | Ballona Creek Culver City, Sampled at L. A. C. F. C. D. Staffage station No. 117, at Duquesne St., crossing. Discharge during summer usually penetrates into creek bottom before reaching tide water. | | 55 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |

^a Log in files of Division of Water Resources.^b Water levels in files of Division of Water Resources.^c Includes small equivalent quantity of Carbonate (CO₃).^d Sulphate (SO₄) determined by turbidity method.^e Alkaline bases estimated by difference between sum of anion radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^f Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.^g Analysis by City of Los Angeles, Department of Water and Power Laboratory.^h Analysis by Los Angeles County Flood Control District, Los Angeles.

TABLE 8. WELLS IN LOS ANGELES AREA

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^3$ at 25°C) | Percent sodium | Constituents (parts per million) | | | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|------|---|----------------|----------------------------------|-----------------------|---------------------------------|------------------------------|----------------|-------------|-----|-----|-----|
| | | | | | | | | Boron ppm | Chloride radicle (Cl) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) | | | |
| B-6-H 7 | City of Beverly Hills, La Cienega Well 8, cl Clifton Way, 50 feet W. of La Cienega Blvd., Use: Municipal. Casing: 14 inches. Perforated 156-174; 206-354; 258-271. | 2623B | 146 | *290 | (d) | 4/20/31 | - | - | - | - | - | - | - | | | |
| B 6k H 6 | City of Beverly Hills, Roxbury Park Well 2, Beverly Hills; 200 feet S of Olympic Blvd., 25 feet W. of Roxbury Drive. Use: Irrigation. Casing: 12 inches. Perforated 318-450. | 2594B | 225 | *450 | 1618 | 12/22/32 | 472 | 1.21 | 29 | 396 | 1.363 | 171 | 0 | 405 | 185 | 341 |
| B-11e H 7 | Beverly Hills Ice & Cold Storage Co. Beverly Hills; 230 feet N. of 3rd St., 210 feet W. of Industrial Drive. Use: Industrial. Casing: 12 inches. Gravel 162-170; 171-173; 175-180; 448-462; 504-529; 532-562. | 2602C | 230 | *576 | 386 | 10/ 2/31 | 64.8 | 0.05 | 34 | 229 | 36 | 95 | 3 | 52 | 27 | 55 |
| B 11f (1-7) | City of Beverly Hills, NE of Beverly Hills; 65 feet N. of Harratt St., 150 feet W. of Palm Ave. Use: Municipal. Casing: 12 inches. Gravel 172-180. | 2611 | 300 | *270 | 387 | 10/ 2/31 | 91.3 | 1.01 | 67 | 333 | 105 | 38 | 6 | 31 | 19 | 148 |
| B 12 H 7 | Addir Creamery Co. S. of Beverly Hills; 200 feet W. of La Cienega Blvd., 200 feet S. of 18th St. Use: Not used. Casing: 16 inches. Perforated 174-250. Sampled at 65, 200 and 320-foot depths respectively. | 2623 | 100 | *x362 | (*) | 3/ 5/32 | - | - | - | - | 263 | 43 | - | - | - | - |
| B-12a I 7 | Pacific Western Oil Co. E. of Culver City; 130 feet W. of Moynier Lane, 80 feet N. of southern branch of Ballona Creek. Use: Domestic and industrial. Casing: 12 inches. L. A. D. of W. & P. No 22-C-16. | 2626A | 82 | x720 | (*) | 3/30/31 | - | - | - | - | 307 | 43 | - | - | - | - |
| B-12d I 7 | Shell Oil Co. E. of Culver City; 25 feet E. of Moynier Lane, 400 feet N. of Sentous crossing of P. E. Ry. In pump station yard of Shell Oil Co. Use: Domestic and industrial. Casing: 14 inches. | 2627 | 95 | (x) | (*) | 11/12/31 | - | - | - | - | 469 | 128 | - | - | - | - |
| B 12e I 7 | American States Water Service Co. E. of Culver City; 30 feet E. of Senthey Ave., 300 feet S. of Jacob St. Timber-covered pit. Use: Not used. Casing: 12 inches. Sampled at 65-foot depth. | 2627A | 85 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| B 12f I 7 | City of Beverly Hills, Castle Tract Well 2, E. of Culver City; 1,000 feet S. of Adams Blvd., 150 feet E. of Spaulding St., 500 feet E. of Moynier Lane at end of Jefferson and Adams Bivis storm drains. Use: Municipal. Casing: 26 inches. Perforated 201-294. | 2636 | 82 | *317 | (*) | 3/ 1/32 | - | - | - | - | 352 | 106 | - | - | - | - |
| B 12g I 7 | American States Water Service Co., Plant 5, N.E. of Culver City; 250 feet S. of Washington Blvd., 60 feet E. of Senthey Ave.; Use: Municipal. Casing: 30 inches. Perforated 152-160; 174-199; 214-266. | 2636D | 88 | *266 | (*) | 4/20/31 | 10/ 1/32 | - | - | - | 295 | 96 | - | - | - | - |
| B-12t H 7 | City of Beverly Hills, La Cienega Well 2, S. of Beverly Hills; 500 feet N. of Venice Blvd., 50 feet W. of La Cienega Blvd. Use: Municipal. Casing: 26 inches. Perforated 120-150; 193-260; 278-300. | 2626E | 94 | *340 | (d) | 4/20/31 | - | - | - | - | 354 | 86 | t45 | - | - | - |
| B-12u I 7 | M. Moynier Well 1, E. of Culver City; 1,200 feet S. of Higuera St., 200 feet W. of Moynier Lane. Use: Irrigation. Casing: 12 inches. Perforated 53-80. | 2628 | 119 | *120 | (*) | 10/ 2/31 | 469 | 0.64 | 35 | 390 | 103 | t20 | 0 | 54 | 32 | 132 |
| B-13c I 7 | M. Moynier Well 2, E. of Culver City; 650 feet S. of Higuera St., 200 feet W. of Moynier Lane. Use: Domestic. Casing: 14 inches. Perforated 20-38. Sample for D. W. R. Lab. No. 484 was dipped from open casing. | 2628A | 105 | *237 | (*) | 10/22/31 | 539 | 0.53 | 58 | 204 | 1.677 | 30 | 0 | 207 | 144 | 696 |
| B-13e I 7 | - | - | - | - | - | - | - | - | - | - | 342 | 2.024 | - | - | - | - |
| | | | | | | | | - | - | - | 390 | 2.095 | - | - | - | - |

TABLE 8. WELLS IN LOS ANGELES AREA Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|--|--|---------------------------------|----------------|--|---------------------------------------|------------------------------------|--------------------|
| | | | | | | Specific electrical conductance ($K \times 10^4$ at $25^\circ C$) | Boron ppm | Percent sodium | Bicarbonate radicle + Mg + Na ($Na \times 10^3$) | Sulfate radicle (SO_4) | Nitrate radicle (NO_3) | Magnesium (Mg) |
| B-13g-1-7 | Mr. Collins, E. of Culver City; 250 feet S. of Higuera St., 80 feet W. of Lenawee Ave. Use: Irrigation. Three-foot dug well. | .627G | 97 | 26 | (e) | 3/1/32 884 3/23/32 (e) | 1,477 0 45 4/29/32 ... | 20 ... | 448 434 5,382 | 5183 5,414 5,382 | 0 ... | 724 ... |
| B-13h-1-7 | Mr. Collins, SE. of Culver City; 1,300 feet S. of Higuera St., 150 feet W. of Lenawee St. In pump house in back of large white stucco residence. Use: Domestic. Three-foot dug well. | 2638B | 127 | 25 | (e) | 3/1/32 884 3/29/32 (e) | ... | ... | 352 366 | 728 650 | ... | ... |
| B 14-G-8 | Home Ice & Cold Storage Co., Hollywood; 80 feet E. of La Brea Ave., 17.5 feet N. of Santa Monica Blvd. Use: Industrial. Casing: 12 inches, in 20-foot concrete pit. Perforated 100-110. | 2650 | 289 | x110 | 388 | 10/ 2/31 | 87.8 | 0.29 | 60 | 238 | 130 | 55 |
| B 15a-1-8 | Blue Bird Laundry, Los Angeles; 400 feet E. of Crenshaw Blvd., 150 feet N. of Exposition Blvd. Use: Laundry supply. | 2667B | 110 | ... | 1,273 | 8/ 8/32 | 51.0 | 0.84 | 50 | 204 | 36 | 42 |
| B-16 I-8 | Los Angeles Investment Co., E. Irrigation Well, Los Angeles; 100 feet N. of 48th St., 90 feet W. of 4th Ave. Use: Formerly irrigation, not used for domestic or municipal purposes. Casing: 12 inches. Perforated 30-48-60-75. First operation of three wells after two years' idleness. Test run to develop present character of water. Sample is composite of three wells B-16-I-8, B-16a-I-8, and B-16b-I-8, which are inter-connected but can be operated separately by use of valves installed. | 2679 | 128 | x300 | 382 | 10/ 2/31 | 190 | 0.14 | 18 | 375 | 355 | 141 |
| B-19c-1-8 | Los Angeles Investment Co., Los Angeles; 175 feet N. of 48th St., 90 feet W. of 4th Ave. Use: Municipal. Casing: 16 inches. Perforated 311-334-347-362-374-417-441. | 2679C | 128 | *x608 | (f) 383 | 5/10/28 10/ 2/31 | 64.4 | 0.09 | 26 27 | 272 241 | 131 30 | 140 87 |
| B-16d I-8 | Los Angeles Investment Co., Los Angeles; 40 feet N. of 48th St., 125 feet W. of 4th Ave. Use: Municipal. Casing: 16 inches. Perforated 410-437-622-632-656-658; 668-688; 832-864; 989-973. D.W. R. Lab. No. 451 is a sample from driller's bucket of water from stratum at 622 to 632 feet. L. A. D. of W. & P. No. 22-D-15. | 2679D | 127 | *1015 | 451 (b) (b) (b) (b) (b) | 10/16/31 10/16/31 11/ 9/31 11/12/31 11/13/31 11/20/31 | 73.3 | 0.30 | 33 7 19 14 12 5 | 183 83 447 189 236 130 | 140 80 129 82 30 34 | 116 4 70 |
| B-19f-1-9 | California Consumers Co., Well 3, Los Angeles; 180 feet NW of Hill St., 525 feet SW. of Jefferson Blvd. Use: Industrial (treated before use). Casing: 14 inches. Perforated 360-380. | 2728C | 195 | *408 | 389 | 10/ 2/31 | 73.8 | 0.11 | 27 | 281 | 44 | 92 |
| B 21b-H-10 | California Consumers Co., Los Angeles; 200 feet S. of 5th St., 515 feet E. of Alameda St. Use: Industrial (treated for ice-making). Casing: 18 inches. (trawl) 95-105; 109-114; 118-132. | 2765B | 258 | *266 | 390 | 10/ 2/31 | 110 | 0.24 | 32 | 308 | 147 | 162 |
| B-38-J-8 | City of Inglewood, Well 7, Inglewood; 1,000 feet N. of Redondo Road, 600 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 100-115; 135-159; 177-191; 245-265. | 1352 | 141 | *x300 | (d) | 7/16/31 | ... | ... | ... | 239 | 36 | b60 |
| B 38a-J-8 | City of Inglewood, Well 8, Inglewood; 1,250 feet N. of Redondo Blvd., 550 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 104-117; 154-157; 246-275. | 132A | 141 | *297 | (d) | 7/16/31 | ... | ... | ... | 258 | 34 | 145 |
| B-38b-J-8 | City of Inglewood, Well 9, Inglewood; 1,100 feet N. of Redondo Blvd., 440 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 86-110; 113-149; 182-190; 242-245. | 132B | 142 | *290 | (d) | 7/16/31 | ... | ... | ... | 234 | 21 | b50 |
| B-38c-J-8 | City of Inglewood, Well 11, Inglewood; 1,450 feet N. of Redondo Blvd., 750 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 104-117; 156-190; 246-269. | 132D | 147 | *1025 | (d) | 7/16/31 | ... | ... | ... | 234 | 29 | b60 |
| B-38d-J-8 | City of Inglewood, Well 12, Inglewood; 1,350 feet N. of Redondo Blvd., 700 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 101-115; 122-130; 175-183; 239-250. | 132E | 141 | *282 | (d) | 7/16/31 | ... | ... | ... | 234 | 30 | b60 |
| B-38e-J-8 | City of Inglewood, Well 13, Inglewood; 1,350 feet N. of Redondo Blvd., 950 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 184-207; 246-254. | 132F | 152 | *300 | (d) | 7/16/31 | ... | ... | ... | 234 | 33 | b54 |

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^3$ at $25^\circ C$) | Constituents (parts per million) | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|--------------------------|---|---|----------------------------------|-----------------|-----------------------------------|-----------------------------|---------------------------------|------------------------------|-------------------|------------------------|-----|
| | | | | | | | | Boron ppm | Percent sodium | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | | | |
| B-42B J 8 | City of Inglewood. Inglewood; 60 feet N. of 80th St., 155 feet W. of 10th Ave. Use: Municipal. Casing: 18 inches. Perforated 244-285. Well first perforated at 1,047-1,087 feet. (total depth 1,087 feet). D.W.R., Lab. No. 207 and Los Angeles Testing Lab. on 7/31/31 are analyses of water (dark amber in color) from this stratum, sampled during test run. Well was later sealed up to 321 feet and perforated at 244-285 feet. Later analyses are from the upper stratum. L.A.D. of W. & P. No. 10 B-18. | 1373A | 233 | *321 | (1) 207 (b) (f) | 7/31/31 8/3/31 4/11/32 4/12/32 | 201.2 | 48.8 0.14 102.2 ... | 37 18 ... | 201 308 ... | 58 163 ... | 0 13 ... | 16 19 38 40 | 8 8 7 11 | 541 479 60 38 | |
| B 47-J-8 | Los Angeles County. Well 1. SE of Inglewood; 100 feet S. of 106th St., 0.15 miles W. of Normandie Ave. Use: Domestic. | 1395A | 223 | --- | 861 | 3/28/32 | 48.8 | 0.14 | 37 | 201 | 23 | 58 | 0 | 48 | 12 | 47 |
| B 50 I 9 | City of Los Angeles. Figueroa and Slauson Pumping Plant 1. W. of Vernon; 75 feet N. of Slauson Ave., 100 feet W. of Figueroa St. Use: Municipal. Casing: 12 inches. Perforated 86-128; 406-434; 456-496. | 1411 | 154 | *x610 | 196 | 8/ 6/31 | --- | ... | 18 | 308 | 75 | 163 | 13 | 117 | 32 | 43 |
| B-55b-J-9 | Goodyear Tire & Rubber Co., Well 3. Los Angeles; 1,250 feet W. of Central Ave. between ear tracks on Gage Ave. at McKinley Ave. Brick pump house opposite Goodyear Tire & Rubber Co. Garage. Use: Industrial. Casing: 18 inches. Perforated 83-125; 133-143; 156-170. | 1431 | 162 | *x260 | 198 | 8/ 6/31 | 111.8 | ... | 26 | 354 | 73 | 165 | 35 | 124 | 35 | 74 |
| B-58d K 9 | American States Water Service Co., Delmar Plant (formerly Los Angeles Water Service Co., Well 4). NE. of Athens; 115 feet S. of 116th Place; 700 feet E. of San Pedro St. Use: Municipal. Perforated 1,05-175; 301-310; 330-425. | 1437B | 120 | *x549 | 197 | 8/ 6/31 | 55.6 | ... | 30 | 220 | 23 | 72 | 0 | 57 | 15 | 40 |
| B-59k L 9 | H. Hellmers, W. of Compton; 180 feet N. of Rosecrans Blvd.; 250 feet E. of Avalon Blvd. Use: Irrigation. Casing: 14 inches. Gravel 136-140; 173-178; 273-300; 312-338; 348-356. | 1439E | 118 | *362 | 200 | 8/ 6/31 | 47.0 | --- | 37 | 217 | 20 | 38 | 0 | 41 | 13 | 44 |
| B-62e J 9 | City of Los Angeles. Green Meadows Well 1. W. of Watts; 55 feet E. of Wadsworth Ave.; 75 feet N. of 99th St. Use: Municipal. Casing: 16 inches. Perforated 305-343; 537-552. | 1445B | 118 | *x620 | 201 | 8/ 6/31 | 60.2 | ... | 27 | 235 | 27 | 81 | 2 | 65 | 18 | 41 |
| B-65b-I-10 | Pioneer Paper Co., Vernon; 15 feet S. of 55th St., 950 feet E. of Alameda Ave. Use: Industrial. Casing: 16 inches. Perforated 77-96; 294-305; 315-325; 436-462; 495-510. | 1460B | 183 | *531 | 199 | 8/ 6/31 | 61.8 | --- | 28 | 235 | 27 | 90 | 2 | 65 | 18 | 43 |
| B 66a J 10 | American States Water Service Co., Well NL. SW. of Huntington Park; 90 feet N. of Nadan St., 70 feet E. of Walnut Drive. Use: Municipal. Casing: 14 inches. | 1463 | 142 | x195 | 205 | 8/ 6/31 | 102.2 | ... | 25 | 305 | 66 | 156 | 21 | 114 | 32 | 63 |
| B 66f-J-10 | Walnut Park Mutual Water Co., Well 4. S. of Huntington Park; 40 feet S. of Florence Ave.; 245 feet E. of Santa Fe Ave. Use: Municipal. Casing: 20 inches. Perforated 928-1,600. | 1472A | 157 | *x1600 | 204 | 8/ 6/31 | 56.7 | ... | 29 | 226 | 23 | 80 | 0 | 60 | 17 | 40 |
| B 69e-K-10 | City of Compton, Well 3. Compton; 30 feet N. of Hatchway Ave.; 700 feet W. of Avande St. Use: Municipal. Casing: 12 inches. 145 feet S. of Florence Ave.; 500 feet E. of Santa Fe Ave. Use: Municipal. Casing: 12 inches. | 1472D | 157 | 666 | 203 | 8/ 6/31 | 69.6 | ... | 27 | 250 | 34 | y6 | 21 | 75 | 21 | 46 |
| B-69h-L-10 | City of Compton, Well 2. Compton; 60 feet W. of Tamaindrd St., 100 feet S. of Orange St. Use: Municipal. Casing: 12 inches. | 1479 | 71 | 350 | 152 (d) | 7/22/31 7/14/32 | 57.2 | ... | 32 | 220 | 23 | 81 | 1 | 0.0 | 16 | 45 |
| B 70 I 10 | Mr. Winger, Vernon; 350 feet W. of Boyle Ave. (State St.), 275 feet S. of Fruitland Ave. Use: Domestic. Casing: 8 inches. | 1480 | 185 | x180 | 848 | 3/23/32 | 125 | 0.24 | 24 | 278 | 69 | 184 | 133 | 141 | 38 | 73 |
| B 70b-J-10 | City of Huntington Park, Well 4. Huntington Park; 340 feet S. of Slauson Ave.; 75 feet E. of Miles Ave. (Soto St.). Use: Municipal. Casing: 18 inches. | 1481 | 176 | x900 | (g) | 7/21/31 | ... | ... | ... | 273 | 49 | b70 | ... | ... | ... | ... |
| -71a J 10 | City of Huntington Park, Well 5. Huntington Park; 25 feet E. of Miles Ave.; 55 feet N. of Zoe Ave. Use: Municipal. Casing: 18 inches. | 1482 | 163 | x1246 | (h) | 7/21/32 | ... | ... | ... | 229 | 29 | b45 | ... | ... | ... | ... |
| -71a J 10 | Bell Water Co., Plant 1, Well 1. W. of Bell; 30 feet E. of U.P.R.R. 25 feet S. of Gage Ave. Use: Domestic. Casing: 12 inches. Perforated 112-130; 250-260. | 1472 | 156 | *x636 | 206 | 8/ 6/31 | 57.8 | ... | 29 | 229 | 25 | 76 | 2 | 59 | 19 | 43 |

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance (K x 10 ⁻³ at 25°C) | Boron ppm | Constituents (parts per million) | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|---------|--|-----------|----------------------------------|---|-----------------------|------------------------------------|
| | | | | | | | | | Percent sodium | Bicarbonate radicle (Na x 100 Ca + Mg + Na / Ca + Na) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) |
| B-71c-J-10 | City of Huntington Park, Well 6, SE. of Huntington Park; 30 feet S. of Florence Ave., 30 feet E. of Salt Lake Ave. Use: Municipal. Casing: 18 inches. | 1492B | 142 | x600 | (d) | 7/21/32 | ----- | ----- | 239 | 32 | b50 | ----- |
| B-72c-J-10 | City of Southgate, Well 2, Southgate; 35 feet S. of Ardmore Ave., 80 feet E. of Elizabeth St. Use: Municipal. Casing: 12 inches. 20 feet N. of Michigan Ave., 80 feet W. of Elizabeth Ave. Use: Municipal. Casing: 12 inches. | 1494 | 122 | x690 | (d) | 7/21/31 | ----- | ----- | 210 | 28 | b45 | ----- |
| B-72g-K-10 | Home Gardens Water Co. (Sidney Smith, owner). Southgate; 16 inches. Perforated 93-165. Casing: 12 inches. | 1495B | 100 | x732 | 202 | 8/6/31 | 72.6 | 28 | 271 | 39 | 102 | 0 |
| B-73c-K-10 | City of Lynwood, Well 2, Lynwood; 80 feet S. of Lynwood Road, 0.14 miles W. of Long Beach Blvd. Use: Municipal. Casing: 16 inches. Perforated 93-165. 314-338. | 1487 | 85 | *352 | (d) | 7/14/31 | ----- | ----- | 280 | 45 | b88 | ----- |
| B-73e-K-10 | Test hole, Lynwood; 5 feet W. of California Ave., 25 feet S. of Century Blvd. | 1498 | 95 | 12 | 768 | 3/4/32 | 336 | 0.83 | 61 | 784 | 417 | 672 |
| B-75-J-10 | Maywood Mutual Water Co., Well 1 of 2, Maywood; 115 feet N. of 56th St., 30 feet W. of Loma Vista Ave. Use: Municipal. Casing: 16 inches. Perforated 362-371; 549-546; 548-547; 808-816; 852-870. | 1500 | 168 | *x1,333 | (d) | 7/14/31 | ----- | ----- | 246 | 34 | b28 | ----- |
| B-75a-J-10 | Maywood Mutual Water Co., Well 2 of 2, Maywood; 175 feet E. of Everett St., 100 feet N. of 60th St. Use: Municipal. Casing: 16 inches. Perforated 210-227; 453-503; 552-564; 839-846; 917-975. | 1501 | 160 | *x1,016 | (d) | 7/14/31 | ----- | ----- | 234 | 29 | b57 | ----- |
| B-75b-J-10 | Maywood Mutual Water Co., Well 1 of 1, Maywood; 200 feet S. of Slauson Ave., 250 feet W. of Gifford St. Use: Municipal. Casing: 12 inches. Perforated 844-889. | 1501A | 158 | *x955 | (d) | 7/14/31 | ----- | ----- | 242 | 28 | b37 | ----- |
| B-75f-J-11 | Maywood Mutual Water Co., Well 2 of 3, Maywood; 237 feet E. of Heliotrope St., 30 feet S.E. of Riverside Drive. Use: Municipal. Casing: 16 inches. | 1520A | 148 | x | (d) | 7/14/31 | ----- | ----- | 242 | 45 | b35 | ----- |
| B-75h-J-11 | Maywood Mutual Water Co., Well 3, Maywood; 150 feet E. of Heliotrope St., 140 feet N. of 57th St. Use: Municipal. Casing: 16 inches. | 1521 | 145 | x1,258 | (d) | 7/14/31 | ----- | ----- | 244 | 33 | b50 | ----- |
| B-76f-J-11 | Maywood Mutual Water Co., Well 1 of 3, Maywood; 130 feet W. of Prospect St., 100 feet S. of Franklin St. Use: Municipal. Casing: 12 inches. Head of Franklin St. 134-150-170; 270-280; 284-285. Perforated 130-134; 150-170; 270-280; 284-285. | 1512 | 142 | *x301 | (d) | 7/14/31 | ----- | ----- | 236 | 29 | b32 | ----- |
| B-77a-J-10 | City of Southgate, Well 3, Southgate; 35 feet S. of Ardmore Ave., 55 feet W. of Otis St. Use: Municipal. Casing: 12 inches. | 1504 | 121 | 850 | (d) | 7/21/31 | ----- | ----- | 234 | 30 | b45 | ----- |
| B-77b-J-11 | City of Southgate (formerly Guy Neville) Well 7, NE. of Southgate; 60 feet SW. of 111 P. R. R. halfway between Atlantic Blvd. and Firestone Blvd. at head of Neville St. Use: Municipal. Casing: 12 inches. | 1514 | 111 | 650 | (d) | 7/21/31 | ----- | ----- | 224 | 29 | b45 | ----- |
| B-78-K-10 | City of Southgate, Well 8, Southgate; 60 feet N. of Michigan Ave., 30 feet W. of Kaufman Ave. Use: Municipal. Casing: 12 inches. | 1505A | 105 | x764 | (d) | 7/21/31 | ----- | ----- | 249 | 27 | b23 | ----- |
| B-78c-J-10 | City of Southgate, Well 5, Southgate; 20 feet W. of Kaufman Ave., 75 feet S. of Southern Ave. Use: Municipal. Casing: 12 inches. Perforated 318-330; 350-362; 614-680; 732-750; 892 (94). | 1515A | 114 | *x1,000 | (d) | 7/21/31 | ----- | ----- | 230 | 52 | b45 | ----- |
| B-78d-K-11 | City of Southgate, Well 9, Southgate; 60 feet E. of Washington Ave., 150 feet S. of Tweedy Blvd. Use: Municipal. Casing: 12 inches. | 1515B | 105 | 813 | (d) | 7/21/31 | ----- | ----- | 239 | 21 | b20 | ----- |
| B-111d-L-9 | J. P. Miller Realty Co. W. of Compton; 2,000 feet W. of Central Ave., 500 feet N. of Riverside-Feltono Blvd. Use: Irrigation. Casing: 12 inches. Perforated 173-185. | 840A | 105 | *250 | 162 | 7/23/31 | 59.1 | ----- | 30 | 228 | 27 | 84 |
| B-116c-L-10 | City of Compton, Magnolia Plant 4, Compton; 75 feet N. of Magnolia St., 500 feet E. of P. E. Ry.; 100 feet W. of Tamarind St. Use: Domestic. Casing: 16 inches. Perforated 669-688. | 870 | 68 | *x714 | 150 | 7/22/31 | 50.5 | ----- | 34 | 220 | 20 | 56 |
| B-116d-L-10 | City of Compton, Magnolia Plant 1, Compton; 50 feet N. of Magnolia St., 110 feet W. of Tamarind St. Use: Municipal. Casing: 12 inches. | 870A | 68 | x360 | 151 | 7/22/31 | 50.6 | ----- | 34 | 217 | 20 | 52 |

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^3$ at 25°C) | Percent sodium | Constituents (parts per million) | | | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|---------|---|----------------|----------------------------------|-----------------------------------|---------------------------------|-----------------------------|------------------------------|--------------------|-----------------|-------|-----|
| | | | | | | | | | Boron ppm | Bicarbonate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) | | |
| B-116m L 10 | Test hole, W. of Compton; on S. line of Olive (Center St.), 50 feet E. of drain, 300 feet W. of Oleander St. | 871A | 66 | 8 | 741 | 2/15/32 | 157 | 0.38 | 42 | 479 | 181 | 185 | 6 | 120 | 52 | 168 | |
| B-117-L-10 | I. W. Hellman Ranch. SW. of Compton; 100 feet E. of Wilmington Ave., 0.6 miles N. of Victoria St. ^{1/2} se. Domestic. Casing: 7 inches. | 862 | 97 | x | 1878 | 2/8/33 | 33.9 | 0.06 | 53 | 92 | 53 | 0 | 0 | 25 | 5 | 40 | |
| B-117a L-10 | G. D. Hafford. Well 2, SW. of Compton; 0.25 miles N. of Victoria St., 300 feet E. of Compton Ave. (Wilmington Ave.). Use: Irrigation. Casing: 16 inches. Perforated 355-360. | 862A | 125 | 374 | 240 | 8/19/31 | 50.5 | ----- | 39 | 204 | 23 | 65 | 0 | 50 | 11 | 49 | |
| B-121L L-10 | Southern California Mausoleum Co., Compton; 100 feet N. of Main St.; 25 feet E. of Temple St. Use: Irrigation and domestic. Casing: 12 inches. Perforated 101-136. | 890B | 70 | *142 | 149 | 7/22/31 | 76.7 | ----- | 28 | 268 | 46 | 127 | Tr. | 86 | 23 | 54 | |
| B-121-L-10 | City of Compton Shinner Tract Well 5, SE. of Compton; 100 feet N. of Shinner St., 100 feet W. of Long Beach Blvd. Use: Municipal. Casing: 13 inches. Perforated 42-132. | 891 | 62 | *x199 | 153 | 7/22/31 | 67.5 | ----- | 29 | 250 | 34 | 106 | 0 | 76 | 18 | 50 | |
| B-122 L 10 | City of Long Beach, N. Long Beach Well 2, SE. of Compton; 200 feet E. of Long Beach Blvd., 800 feet S. of Artesia St. Use: Municipal. Casing: 10 inches. | 892C | 57 | 200 | 84 | 6/19/31 | 54.8 | ----- | 33 | 244 | 23 | 56 | Tr. | 60 | 15 | 48 | |
| B-123 M 10 | George Mindrup, S. of Compton; 1,400 feet N. of Delano St., 1,100 feet E. of Alameda St., 1,100 feet W. of P. E. Ry. On W. bank of Compton Creek. Use: Irrigation and domestic. Casing: 12 inches. | 884 | 40 | 161 | 154 | 7/22/31 | 56.9 | ----- | 36 | 223 | 27 | 72 | 0 | 65 | 9 | 52 | |
| C-803r I-12 | Montebello Land and Water Co., Well 7, Montebello; 50 feet W. from edge of bluff of Rio Hondo, 30 feet S. of Washington Ave., extended 650 feet E. of Poplar St. Use: Irrigation and domestic. Casing: 20 inches. Perforated 72-110. Well originally 900 feet deep and sealed up to 126 foot depth. | 2908 | 211 | *x126 | 1028 | 6/1/32 | 50.0 | 0.16 | 45 | 204 | 39 | 23 | 6 | 39 | 12 | 54 | |
| C-803u I-12 | La Merced Heights Land and Water Co., Well 2, Montebello; 700 feet E. of Lincoln Ave. on a line with La Merced Ave., projected, 150 feet N. of C-803v-1-12. Use: Not used. Casing: 12 inches. U. S. D. A. analysis on 3/26/32 is duplicate of D. W. R. Lab No. 368. | 2917A | 186 | x125 | 868 | 3/26/32 | 189 | 0.76 | 45 | 274 | 481 | 35 | 0 | 149 | 37 | 200 | |
| C-803v-1-12 | La Merced Land and Water Co., Old Well 1, Montebello; 700 feet E. of Lincoln Ave. on line with La Merced Ave., projected, 150 feet S. of C-803u-1-12. Use: Municipal. Casing: 16 inches. | 2917B | 186 | x460 | 979 | 5/13/32 | 220 | 0.85 | 48 | 281 | 564 | 35 | 0 | 159 | 36 | 233 | |
| C-806d-1-12 | John J. Germaine, Montebello; 800 feet W. of Lincoln Ave., 200 miles S. of La Merced Ave., extended. Use: Domestic, public supply. Perforated at about 65 foot depth. Well drilled for oil and converted to water well. | 2917D | 185 | 1,300 | 1018 | 3/30/32 | 71.9 | 0.29 | 61 | 242 | 98 | 106 | 34 | 0 | 148 | 34 | 201 |
| C-806h I-12 | John J. Germaine, E. of Montebello; 0.2 miles E. of turn in Lincoln Ave., 800 feet S. of La Merced Ave., extended. Use: Domestic. Casing: 8 inches. | 2917F | 185 | 50 | 1029 | 6/1/32 | 77.9 | 0.41 | 81 | 281 | 106 | 34 | 0 | 22 | 5 | 144 | |
| C-807h-1-12 | South Montebello Irrigation District, Well 1, Montebello; 0.13 miles S. of Roosevelt Ave., 150 feet E. of First St. (Bluff Ave.), River bottom. Use: Domestic, public supply. Perforated 30-70; 95-103; 112-122; 140-150; 153-157. | 2899A | 170 | *200 | (*) | 4/1/32 | ----- | ----- | 193 | 32 | ----- | ----- | ----- | ----- | ----- | ----- | |
| C-808h I-12 | Mr. Burkhardt, Montebello; 120 feet E. of Greenwood Ave., 80 feet S. of Beach St. Use: Domestic. Casing: 5 inches. | 1580D | 195 | x172 | 1601 | 4/27/32 | 75.4 | 0.13 | 16 | 205 | 89 | 16 | 1 | 236 | 33 | 28 | |
| C-808j I-12 | California Water Service Co., Bellvedere Well 19, Montebello; 55 feet W. of Valley Ave., 50 feet N. of Ferguson Drive. Use: Domestic and irrigation. Casing: 12 inches. | 2579B | 191 | x | (*) | 7/13/31 | ----- | ----- | 193 | 32 | ----- | ----- | 1 | 63 | 19 | - | |

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|------|--|--|-----------|--|--|--|---|----------------|-------------|----|-----|
| | | | | | | Boron ppm (K x 10 ⁻⁴) at 25°C. | Specific electrical conductance (K x 10 ⁻⁴) at 25°C. | Boron ppm | Percent sodium Na x 100 (Ca + Mg + Na) (HCO ₃) | Bicarbonate radicle (HCO ₃) (Ca) | Sulphate radicle (SO ₄) (Ca) | Nitrate radicle (NO ₃) (Ca) | Magnesium (Mg) | Sodium (Na) | | |
| C-834f-J-11 | George Peterson, SE of Bell; 0.14 miles N of Clara St. (Hunt's Crossing Road); 210 feet W. of Perry Road. Use: Irrigation. Casting: 12 inches. Perforated 211-233; 357-361. | 1543H | 121 | *402 | 141 | 7/15/31 | 47.6 | ----- | 30 | 250 | 18 | 4 | 55 | 13 | 38 | |
| C-834m-J-11 | Tweed-Beek, SE. of Bell; 600 feet N. of Hunt's Crossing Road (Clara St.), 800 feet E. of Los Angeles River. Use: Domestic. Casing: 8 inches. Perforated 207-221. | 1533D | 120 | *229 | 142 | 7/15/31 | 224.9 | ----- | 27 | 290 | 341 | 515 | 2 | 237 | 78 | 154 |
| C-866d-J-11 | Rio Grande Oil Co., Well 1, SE. of Bell; 175 feet S. of S. P. R. R., 450 feet E. of E. bank of Los Angeles River, 1,800 feet W. of Harper St. (Perry Road). Use: Industrial and domestic. Casing: 12 inches. Perforated 432-439. | 1534A | 109 | *575 | 132 | 7/15/31 | 48.3 | ----- | 37 | 220 | 25 | 30 | 7 | 48 | 12 | 45 |
| C-902a-I-11 | California Water Service Co., Belvedere Well 8, Unit 9, W. of Montebello; 60 feet W. of Brannick Ave, 40 feet S. of Anaheim Telegraph Road, 100 feet N. of Mines Ave. (9th St.). Use: Municipal. Casing: 12 inches. Perforated 163-178; 190-247. | 2328A | 191 | *x250 | (4) | 7/13/31 | 67.6 | 0.07 | 29 | 185 | 77 | 147 | ----- | 64 | 23 | 46 |
| C-964a-I-11 | Goodrich Tire and Rubber Co., Well 1, W. of Montebello; 500 feet S. of 9th St., 700 feet W. of Gerhard Ave. S. of reservoir and power plant. Use: Industrial. Casing: 16 inches. Gravel 253-266; 372-379; 416-440; 648-657; 708-730. Casting sealed back to 308 foot depth. | 2385B | 165 | *788 | 393 | 10/3/31 | 40.9 | 0.07 | 41 | 192 | 23 | 20 | 4 | 33 | 12 | 42 |
| C-1310-I-10 | West Coast Kalsomine Co., N. of Vernon; 350 feet N. of 26th St., 2,000 feet W. of Downey Road. Use: Industrial. Casing: 12 inches. Perforated 148-155; 178-179; 218-233; 269-277; 301-305; 321-332; 336-352. | 2788A | 201 | *401 | 392 | 10/3/31 | 89.4 | 0.16 | 25 | 250 | 59 | 128 | 13 | 96 | 29 | 24 |

^a Log in files of Division of Water Resources.^b Water levels in files of Division of Water Resources.

^c Includes small equivalent quantity of Carbonate (CO₃).
^d Sulphate (SO₄) determined by turbidity method.
^e Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

^f Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.^g Analysis by Los Angeles County Flood Control District, Los Angeles.^h Analysis by Los Angeles Testing Laboratory, Los Angeles.ⁱ Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.^j Analysis by City of Los Angeles, Department of Water and Power Laboratory; Carl Wilson, Director.^k Analysis by City of Long Beach Engineering Laboratory.

TABLE 9. SURFACE WATERS IN LOS ANGELES AREA

| Number | Location and description | Location Number | Elevation of ground | Discharge in second feet | Laboratory number | Date | Time of day | Specific electrical conductance ($K \times 10^4$ at $25^\circ C$) | Boron ppm | Per cent sodium | Constituents (parts per million) | | | | | | |
|-------------|---|-----------------|---------------------|--------------------------|-------------------|----------|-------------|---|-----------|-----------------|--|---------------------------|----------------------------|----------------------------|------------------|--------------------|-----------------|
| | | | | | | | | | | | Bicarbonate radicle ($Na \times 100 / Ca + Mg + Na$) | Chloride radicle (Cl) | Sulfate radicle (SO_4) | Nitrate radicle (NO_3) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| S871-L-10 | Compton Creek, W. of Compton. Sampled at S. side of Olive St., 300 feet W. of Oleander St. | S871 | 65 | 742 | 2/15/32 | — | — | 27.9 | 0.06 | — | 98 | 23 | — | — | — | — | |
| S883-L-10 | Compton Creek pond, S. of Compton. Sampled at bridge across pond, 600 feet E. of Alameda St. at Dominguez junction. Pond is filled with water the year around. | S883 | 46 | 159 | 7/22/31 | (e) | 1/25/33 | 174.6 | — | 52 | 162 | 344 | 222 | Tr. | 96 | 41 | 200 |
| S883A-L-10 | Compton Creek, S. of Compton. Sampled at Alameda St. crossing. Discharge from L.A.C.F.C.D. | S883A | 50 | 40 | — | (e) | 1/25/33 | 3.30 p.m. | — | — | 50 | 21 | 28 | Tr. | 22 | 0 | — |
| S895-M-10 | Los Angeles River, SE. of Compton. Sampled at Del Amo St. crossing. Discharge from L.A.C.F.C.D. | S895 | 40 | 150 | — | (e) | 1/25/33 | 3.00 p.m. | — | — | 177 | 64 | 153 | 0 | 67 | 3 | — |
| S911-L-10 | Los Angeles River, E. of Compton. Sampled at Atlantic Blvd. (Olive St.) crossing. Discharge estimated by L.A.C.F.C.D. at time of sampling. | S911 | 56 | 0.3 | 874 | 4/11/32 | — | 102 | 0.42 | 49 | 332 | 105 | 127 | 0 | 75 | 22 | 124 |
| S1524-J-11 | Los Angeles River, E. of Southgate. Sampled at Compton-Jabonera Road crossing W. of Rio Grande Oil Co. refinery U.S.D.A. analysis duplicate of D.W.R.Lab. No. 862. | S1524 | 105 | — | 862 | 3/24/32 | — | 54.3 | 0.19 | 56 | 214 | 41 | 44 | 1 | 34 | 11 | 76 |
| S1525-K-11 | Los Angeles River, W. of Downey. Sampled at L.A.C.F.C.D. gaging station 34 at Stewart and Gray Road crossing. Discharge from L.A.C.F.C.D. | S1525 | 95 | 1.4 | 860 | 4/11/32 | 10:00 a.m. | 69.8 | 0.65 | 60 | 183 | 6 | 163 | 0 | 36 | 13 | 96 |
| S1535-K-11 | Rio Hondo, W. of Downey. Sampled at L.A.C.F.C.D. gaging station 45 at Stewart and Gray Road crossing. Discharge from L.A.C.F.C.D. | S1535 | 95 | 400 | — | (e) | 1/19/33 | 10:00 a.m. | — | — | 166 | 18 | 48 | Tr. | 31 | 2 | — |
| S2627-I-7 | Mr. Casserini, spring, E. of Culver City, On W. U.S.C. Irrigation. | S2627 | 50 | — | 894 | 3/25/32 | — | 1403 | 4.94 | 52 | 778 | 4,083 | 1,880 | 0 | 754 | 515 | 1982 |
| S2771-G-10 | Los Angeles River, NE. of Los Angeles. Sampled at L.A.C.F.C.D. gaging station 57 at Dayton Ave. bridge. Discharge from L.A.C.F.C.D. | S2771 | 300 | 700 | — | (e) | 1/16/33 | 7.45 p.m. | — | — | 68 | 14 | 4 | 0 | 32 | 0 | — |
| S2771A-G-10 | Arroyo Seco, NE. of Los Angeles. Sampled at L.A.C.F.C.D. gaging station 58 at Avenue 26. Stream joins Los Angeles River 1,800 feet below station. Discharge from L.A.C.F.C.D. | S2771A | 310 | 200 | — | (e) | 1/19/33 | 5.35 p.m. | — | — | 56 | 63 | 23 | Tr. | 34 | 1 | — |
| S2774-H-10 | Los Angeles River, Los Angeles. Sampled under Aliso St. bridge. | S2774 | 250 | — | 1708 | 1/20/33 | — | 51.9 | 0.13 | 28 | 131 | 34 | 96 | 7 | 57 | 15 | 37 |
| S2777-I-10 | Los Angeles River, Los Angeles. Sampled at S. side of 9th St. bridge. | S2777 | 210 | — | (e) | 12/17/32 | — | — | — | 54 | 324 | 226 | 247 | — | 99 | 35 | 207 |

^a Includes small equivalent of Carbonate (CO_3^{2-}).^b Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^c Analysis by Los Angeles County Health Department Laboratory and obtained from Los Angeles County Flood Control District.^d Analysis by United States Department of Agriculture, Rutidoux Laboratory, Riverside, California.^e Analysis by City of Long Beach, Engineering Laboratory.

TABLE 10. SURFACE WATERS IN LOWER SANTA ANA RIVER AREA

| Number | Location and description | Location number | Elevation of ground | Discharge in second liter-test | Laboratory number | Date | Specific electrical conductance ($K \times 10^3$ at $25^\circ C$) | Constituents (parts per million) | | | | | | | | | |
|--------------|--|-----------------|---------------------|--------------------------------|-------------------|----------|---|----------------------------------|---|-----------------------------------|-----------------------------|---------------------------------|------------------------------|--------------|----------------|-------------|-----|
| | | | | | | | | Boron ppm | Percent sodium $\frac{Na \times 100}{Ca + Mg}$ | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| S1835 K-17 | Rodeo Canyon Creek, NE. of Brea; E. of Brea Canyon Road, at Los Angeles County Line. | S1835 | 495 | - | 799 | 3/10/32 | 224 | 0.50 | 46 | 631 | 195 | 508 | 0 | 142 | 93 | 284 | |
| S1897-K-18 | Sequel Canyon Creek, E. of Olinda; just above junction with Carbon Canyon Creek (fr.), | S1897 | 675 | - | 801 | 3/10/32 | 979 | 7.23 | 90 | 2,930 | 1,411 | 1,158 | 0 | 22 | 133 | 2,842 | |
| S1897A-K-18 | Carbon Canyon Creek, NE. of Olinda; 0.5 miles below La Vida Spring, above junction of Sequel Creek. | S1897A | 675 | - | 800 | 3/10/32 | 539 | 2.75 | 89 | 2,237 | 620 | 455 | 13 | 10 | 73 | 1,268 | |
| S1925 J-18 | Hiltscher Mineral Springs, SW. of Shady Hollow; 0.1 miles N.E. of San Bernardino County line; 100 feet S. of Carbon Canyon Creek Road, on N. bank of creek. Use: Domestic and baths. | S1925 | 850 | - | 797 | 3/10/32 | 583 | 1.38 | 55 | 1,156 | 646 | 1,738 | 3 | 95 | 348 | 932 | |
| S668-P-13 | The drainage outlet, NW. of Huntington Beach. Sampled at O.C.F.C.D. drainage gaging station 16 at SE. corner of Graham St. and Wintersburg Ave. | S668 | 4 | - | (b) | 6/ 1/32 | - | - | - | - | 35 | - | - | - | - | - | |
| S577 P-14 | La Bola Drainage District tile-drainage manhole, W. of Winterburg; 200 feet E. of Springdale St. on N. line of Heil Ave. extended. N. branch of tile drains. | S577 | 9 | - | 715 | 2/15/32 | 219 | 0.36 | 19 | 192 | 62 | 1,077 | 13 | 321 | 82 | 125 | |
| S577A P-14 | La Bola Drainage District tile-drainage manhole, W. of Winterburg; 200 feet E. of Springdale St. on N. line of Heil Ave. extended. E. branch of tile drains. | S577A | 9 | - | 716 | 2/15/32 | 113 | 0.19 | - | - | 162 | 30 | - | - | - | - | |
| S585 O-14 | Westwater Drainage District tile-drainage outlet, SW. of Westminster; at NE. corner of Edwards St. and Bolla Ave. | S585 | 24 | - | 711 | 2/ 15/32 | 332 | 0.78 | - | - | 860 | 385 | - | - | - | - | |
| S589 P-14 | La Bola Drainage District tile-drainage manhole, SW. of Westminster; 0.12 miles E. of Edwards St., 15 feet S. of Slater Ave. | S589 | 5 | - | 701 | 2/ 5/32 | 126 | 0.32 | - | - | 235 | 94 | - | - | - | - | |
| S589D P-14 | Tri-drainage manhole, NW. of Huntington Beach. Sampled at first manhole E. of O. C. F. C. D. drainage gaging station 15 (S589B P-14), 0.5 miles S. of Slater Ave. | S589D | 3 | - | (b) | 6/ 7/32 | - | - | - | - | 246 | - | - | - | - | - | |
| S589E P-14 | No drainage manhole, NW. of Huntington Beach. Sampled at second manhole E. of O. C. F. C. D. drainage gaging station 15 (S589B P-14), 0.5 miles S. of Slater Ave. | S589E | 4 | - | (b) | 6/ 7/32 | - | - | - | - | 212 | - | - | - | - | - | |
| S595 O-14 | Title drainage outlet, SW. of Golden West St., Westminster Ave., 15 feet E. of Golden West St. | S595 | 30 | - | - | 642 | 1/19/32 | 182 | 0.65 | 35 | 802 | 105 | 201 | 13 | 38 | 21 | 439 |
| S595 P-14 | La Bola Drainage District tile-drainage manhole, SW. of Westminster Ave.; at NW. corner of Slater Ave. and Golden West St. | S595 | 6 | - | - | 712 | 2/15/32 | 134 | 0.42 | - | 454 | 110 | - | - | - | - | - |
| S14414-O-14 | Westminster Drainage District tile-drainage outlet, Westminster; on E. side of Huntington Beach Blvd., 600 feet S. of Westminster Ave. | S14414 | 42 | - | - | 697 | 2/ 5/32 | 107 | 0.22 | - | 134 | 23 | - | - | - | - | - |
| S14417-P-14 | La Bola Drainage District tile-drainage manhole, N. of Westminster; at SE. corner of Huntington Beach Blvd. and Hell Ave. | S14417 | 24 | - | - | 699 | 2/ 5/32 | 60.9 | 0.18 | - | 558 | 178 | - | - | - | - | - |
| S14464-O-15 | Newhope Drainage District tile-drainage manhole, 26' S. of Garden Grove; 250 feet E. of Verano St., 15 feet S. of W. 5th St. | S14464 | 72 | - | - | 670 | 1/28/32 | 108 | 0.24 | - | - | 387 | 73 | - | - | - | - |
| S14464A-O-15 | Newhope Drainage District tile-drainage manhole, 43' W. of Santa Ana; 1,100 feet W. of Newhope St. on N. line of 17th St. (Westminster Ave.). | S14464A | 80 | - | - | (b) | 11/29/30 | - | - | - | 423 | 171 | - | - | - | - | - |
| S14465-O-15 | Newhope Drainage District tile-drainage manhole, 32' S. of Garden Grove; 250 feet E. of Verano St., 15 feet S. of W. 5th St. | S14465 | 70 | - | - | (b) | 2/ 24/31 | - | - | - | 409 | 110 | - | - | - | - | - |
| S14467-P-15 | Newhope Drainage District tile-drainage manhole, 26' S. of Garden Grove; 250 feet E. of Verano St., 15 feet S. of W. 5th St. | S14467 | 54 | - | - | (b) | 11/20/30 | - | - | - | 357 | 73 | - | - | - | - | - |
| S14469-P-15 | Newhope Drainage District tile-drainage manhole, 31' S. of Garden Grove; 250 miles E. of Verano St., 20 feet S. of Smelter Ave. | S14469 | 35 | - | (b) | 10/19/31 | - | - | - | - | 338 | 109 | - | - | - | - | - |
| | | | | | | | | | | | 346 | 80 | - | - | - | - | - |
| | | | | | | | | | | | 375 | 101 | - | - | - | - | - |
| | | | | | | | | | | | 345 | 87 | - | - | - | - | - |
| | | | | | | | | | | | 339 | 96 | - | - | - | - | - |

TABLE 10. SURFACE WATERS IN LOWER SANTA ANA RIVER AREA—Continued

| Number | Location and description | Location number | Elevation of ground | Depth of sample, feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|--------------|--|-----------------|---------------------|-----------------------|-------------------|----------|--|-----------|---|---|-------------------------------------|------------------------------------|------------------------------------|--------------|----------------|-------------|-----|
| | | | | | | | Specific electrical conductance (K _{25°C}) | Boron ppm | Percent sodium $\frac{Na \times 10^6}{Ca + Mg + Na}$ | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| S14473-Q-15 | Newport Drainage District, tile drainage manhole 73, SE. of Garden Grove; 0.25 miles E. of Newport St. on S. line of Trask Ave. | S14473 | 90 | ----- | (b) | 11/28/30 | ----- | ----- | ----- | 367 | 137 | ----- | ----- | ----- | ----- | | |
| S14474-Q-15 | Newhope Drainage District, tile drainage manhole 66, S. of Garden Grove; 0.25 miles W. of Barro St., 320 feet N. of Hazard Ave. | S14474 | 78 | ----- | 669 | 1/28/32 | 158 | 0.34 | ----- | 390 | 138 | ----- | ----- | ----- | ----- | | |
| S14475-P-15 | Newhope Drainage District, tile drainage manhole, S. of Garden Grove; 50 feet N. of Wintersburg St., 20 feet E. of Newhope St. | S14475 | 43 | ----- | 675 | 1/28/32 | 168 | 0.34 | 40 | 470 | 174 | 265 | 2 | 144 | 51 | 175 | |
| S14478A-P-15 | Newhope Drainage District, tile drainage manhole, W. of Wintersburg. Sampled at manhole 600 feet S. of Wintersburg Ave., 600 feet W. of Newhope St. | S14478A | 43 | ----- | (1) | 6/ 7/32 | ----- | ----- | ----- | 100 | ----- | ----- | ----- | ----- | ----- | ----- | |
| S14478B-P-15 | Newhope Drainage District, tile drainage manhole, W. of Wintersburg. Sampled at manhole 700 feet S. of Wintersburg Ave., 200 feet W. of Newhope St. | S14478B | 43 | ----- | (b) | 6/ 7/32 | ----- | ----- | ----- | 139 | ----- | ----- | ----- | ----- | ----- | ----- | |
| S14485-Q-15 | Newhope Drainage District, tile drainage manhole 81, S. of Garden Grove, 150 feet S. of W. 5th St., 20 feet W. of Barro St. | S14485 | 70 | ----- | 673 | 1/28/32 | 144 | 0.32 | ----- | 451 | 117 | ----- | ----- | ----- | ----- | ----- | |
| S14487-P-15 | Newhope Drainage District, manhole 10, S. of Garden Grove; 0.25 miles S. of Smeltzer Ave., 20 feet W. of Barro St. | S14487 | 60 | ----- | 672 | 1/28/32 | 143 | 0.27 | ----- | 378 | 148 | ----- | ----- | ----- | ----- | ----- | |
| S13233-Q-15 | Talbert Drainage District, tile drainage outlet, E. of Huntington Beach; 15 feet E. of Bushard St., 0.4 miles S. of Adams Ave. | S13233 | 9 | ----- | (b) | 3/27/31 | 267.1 | 0.69 | 60 | 676 | 2,275 | 1,116 | 400 | 9 | 144 | 71 | 412 |
| S13232 | Talbert Drainage District, tile drainage outlet, E. of Huntington Beach; 0.5 miles S. of Garfield St. on E. line of Ward St., extended. Outlet of E. branch. | S13232 | 19 | ----- | (b) | 2/ 5/32 | 497 | 0.05 | ----- | 631 | 506 | ----- | ----- | ----- | ----- | ----- | |
| S13260-P-15 | Newhope Drainage District, tile drainage outlet, NE. of Huntington Beach; 0.15 miles S. of Talbert Ave., 0.25 miles E. of Verano St. | S13260 | 32 | ----- | (b) | 11/28/30 | ----- | ----- | ----- | ----- | 384 | 112 | ----- | ----- | ----- | ----- | |
| S557-P-13 | Open drainage ditch, NW. of Huntington Beach. Sampled at O. C. F. C. D. gaging station 17 on W. line of Bolsa Chica St., 1700 feet S. of Smeltzer Ave. | S557 | 13 | ----- | (b) | 1/18/32 | 131 | 0.31 | 43 | 387 | 108 | 198 | 27 | 106 | 39 | 147 | |
| S589A-P-14 | Open drainage ditch, NW. of Huntington Beach. Sampled at E. side of Edwards St., 0.55 miles S. of Slater Ave. and 100 feet S. point where this ditch joins drainage ditch from L. and passes under road to join main ditch on W. side. | S589A | 2 | ----- | (b) | 6/11/31 | 380.2 | ----- | ----- | 375 | 1,383 | ----- | ----- | ----- | ----- | ----- | |
| S589B-P-14 | Open drainage ditch, NW. of Huntington Beach. Sampled at O. C. F. C. D. drainage ditch, NW. of Huntington Beach, 200 feet E. of Edwards St., 0.5 miles S. of Slater Ave. Water flows west. | S589B | 2 | ----- | (b) | 12/ 3/30 | ----- | ----- | ----- | 235 | 294 | 622 | ----- | ----- | ----- | ----- | |
| S589C-P-14 | Open drainage ditch, NW. of Huntington Beach. Sampled at E. end of Edwards St., 0.5 miles S. of Slater Ave. Water flows west. | S589C | 3 | ----- | (b) | 6/11/31 | ----- | ----- | ----- | 235 | 146 | 306 | ----- | ----- | ----- | ----- | |
| S590A-P-14 | Open drainage ditch, NW. of Huntington Beach. Sampled at bridge on Slater Ave., 500 feet W. of Golden West St. | S590A | 4 | ----- | (b) | 12/ 3/30 | ----- | ----- | ----- | 235 | 294 | 622 | ----- | ----- | ----- | ----- | |
| S590B-P-14 | Open drainage ditch, NW. of Huntington Beach. Sampled at C. D. drainage ditch, NW. of Huntington Beach, 200 feet E. of Edwards St., 0.5 miles S. of Slater Ave. | S590B | 4 | ----- | (b) | 6/11/31 | 44.5 | ----- | ----- | 210 | 335 | 20 | ----- | ----- | ----- | ----- | |
| S599A-P-14 | Open drainage ditch, NW. of Huntington Beach; 100 feet NE. of State (Coast) Highway, 1.3 miles NW. of Bushard St., due NE. of Well C-127-Q. 14. Sampled from running water in ditch. | S599A | 1 | ----- | (b) | 6/11/31 | 53.3 | ----- | ----- | 217 | 41 | ----- | ----- | ----- | ----- | ----- | |
| S599B-P-14 | Open drainage ditch, NW. of Huntington Beach; 300 feet E. of Golden West St., 750 feet S. of Slater Ave. | S599B | 1 | ----- | (b) | 6/11/31 | 53 | 0.11/31 | 5,626.4 | ----- | 244 | 23,167 | ----- | ----- | ----- | ----- | |
| S13215-Q-14 | Slough, SE. of Huntington Beach; 100 feet NE. of Well C-127-Q. 14. Sampled from running water in ditch. | S13215 | 1 | ----- | (b) | 12/ 3/30 | ----- | ----- | ----- | 210 | 335 | 20 | ----- | ----- | ----- | ----- | |
| S13222-Q-14 | Talbert Drainage District, open drainage ditch, E. of Huntington Beach. Sampled at O. C. F. C. D. drainage gaging station 13 at NE. corner of Adams Ave. and Cannery St. | S13222 | 8 | ----- | (b) | 3/27/31 | ----- | ----- | ----- | 208 | 218 | 64 | ----- | ----- | ----- | ----- | |
| S13223A-Q-14 | Talbert Drainage District, open drainage ditch, E. of Huntington Beach. Sampled at O. C. F. C. D. drainage gaging station 14 at N.E. corner of Adams Ave. and Cannery St. | S13223A | 9 | ----- | (b) | 3/27/31 | ----- | ----- | ----- | 361 | 570 | ----- | ----- | ----- | ----- | ----- | |

TABLE 10. SURFACE WATERS IN LOWER SANTA ANA RIVER AREA—Continued

| Number | Location and description | Elevation of ground | Discharge in second 1-foot | Laboratory number | Date | Constituents (parts per million) | | | | | |
|--------------|--|---------------------|----------------------------|-------------------|---------|----------------------------------|----------------|-----------|--|------------------------------------|-------------------------------------|
| | | | | | | Boron ppm | Percent sodium | Boron ppm | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Nitrate radicle (NO_3^-) |
| S13224-Q-14 | Open drainage ditch, SE. of Huntington Beach. Sampled at NE. corner of Atlanta Ave. and Newland St. (Pennsylvania Ave., ext. n.e.). Water flows south. | 4 | - | 50 | 6/11/31 | 703.3 | - | - | - | 488 | 1,557 |
| S13224A-Q-15 | Open drainage ditch, SE. of Huntington Beach. Sampled at NE. corner of Cannery St. and Atlanta Ave. | 5 | - | 51 | 6/11/31 | 152.1 | - | - | - | 317 | 89 |
| S13225-Q-14 | Open drainage ditch, SE. of Huntington Beach. Sampled 0.7 miles S. of Atlanta Ave. on line of Cannery St., extended. | 4 | - | 49 | 6/11/31 | 970.1 | - | - | - | 275 | 2,804 |
| S13225A-Q-14 | Slough, SE. of Huntington Beach. Sampled from small slough 50 feet W. of its junction with Talbert drainage ditch, 1.0 miles NW. of Bushard St., 1,000 feet N.E. of State (Coast) Highway. | 2 | - | 52 | 6/11/31 | 7,033.0 | - | - | - | 238 | 23,858 |
| S13225-R-15 | Open drainage ditch, SE. of Huntington Beach. Sampled 1 mile S. of Atlanta Ave. on E. side of Bushard St. | 6 | - | 48 | 6/11/31 | 272 | - | - | - | 576 | 376 |
| S13242-Q-15 | Talbert Drainage District, open drainage ditch, E. of Huntington Beach. Sampled at O.C.F. C.D. drainage station 11, at SR. corner of Adams Ave. and Wright St. | 8 | - | (b) | 3/27/31 | - | - | - | - | 516 | 264 |
| S13246-R-15 | Talbert Drainage District, drainage pumping plant, SE. of Huntington Beach, 1,000 feet SE. of Bushard St., 500 feet NE. of State (Coast) Highway, at end of main drainage ditch. | 3 | - | (b) | 3/20/31 | - | - | - | - | 392 | 10,474 |
| S13260B-P-15 | Open drainage ditch, NE. of Huntington Beach. Sampled at SE. corner of Ellis Ave. and Verona St. | 26 | - | (b) | 3/27/31 | 4,471 | - | - | - | 336 | 5,893 |
| | | | | (b) | 8/20/31 | 243 | - | - | - | 262 | 16,951 |
| | | | | (b) | 8/20/31 | 244 | - | - | - | 287 | 0 |
| | | | | (b) | 8/20/31 | 536.5 | - | - | - | 772 | 1,457 |
| | | | | (b) | 8/20/31 | 61 | - | - | - | 564 | 0 |
| | | | | (b) | 8/20/31 | - | - | - | - | 243 | 155 |
| | | | | (b) | 8/20/31 | - | - | - | - | 243 | 155 |

^a Includes small equivalent quantity of Carbonate (CO_3^{2-}).^b Analysis by Orange County Flood Control District, Santa Ana, California.

TABLE II. WELLS IN LOWER SANTA ANA RIVER AREA

| Well number | Location and description | Elevation of ground | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|-------------|---|---------------------|-------------------|---------|--|-----------|---|-----------------------|---------------------------------|------------------------------|--------------|----------------|-------|-------|-------|
| | | | | | Specific electrical conductance ($K \times 10^3$ at 25°C) | Boron ppm | Percent sodium Na x 100 Na + Mg Ca + Na | Chloride radicle (Cl) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | | | |
| C-900i-M-13 | Steve Luther, W. of Cypress; 200 feet S. of Lincoln Ave., 740 feet W. of Moody St.; Use: Irrigation and domestic. Casing: 6 inches. Perforated 144-200. | 38 | 206 | 5 | 5/23/31 | 45.5 | ..... | 35 | 226 | 18 | 36 | Tr. | 42 | 13 | 40 |
| C-900j-M-13 | Steve Luther, SW. of Cypress; 75 feet W. of Miller Place, 640 feet N. of Orange Ave. Use: Irrigation. Casting: 6 inches. | 40 | 84 | 4 | 5/22/31 | 45.0 | ..... | 34 | 229 | 14 | 29 | 2 | 39 | 15 | 38 |
| C-900h-N-13 | Los Alamitos Sugar Co., Well 12, Los Alamitos; 0.15 miles E. of Los Alamitos Blvd., 25 feet S. of Cerritos Ave. Use: Irrigation. | 205 | (x) | (d) | 4/10/31 | ..... | ..... | ..... | 218 | 18 | 27 | ..... | ..... | ..... | ..... |
| C-900i-N-13 | R. Longwell, Los Alamitos; 20 feet S. of Cerritos Ave., 60 feet W. of Los Alamitos Blvd. Use: Domestic. Casing: 2 inches. | 25 | x355 | (d) | 4/10/31 | ..... | ..... | ..... | 250 | 20 | 16 | ..... | ..... | ..... | ..... |
| C-900m-N-13 | Test hole, N. of Los Alamitos; at SW. corner of Ball Road and Bloomfield Ave. Casing: None. | 29 | 5 | 770 | 3/ 2/32 | 1,453 | 1.28 | 86 | 1,552 | 1,722 | 5,190 | 0 | 190 | 186 | 2,555 |
| C-910j-O-12 | Hellman Ranch Co. (leased by R. Abbe). Seal Beach; 310 feet N. of and 1,100 feet E. of turn to west in Westminster Road at point 0.65 miles NE. of P. E. Ry. Use: Irrigation and domestic. Casing: 12 inches. | 16 | (x) | (d) | 11/10/30 | ..... | ..... | ..... | 168 | 21 | ..... | ..... | ..... | ..... | ..... |
| C-910r-O-12 | Associated Oil Co., Bryant Water Well, NE. of Seal Beach; 100 feet E. of flood control channel on San Gabriel River, 1.25 miles S. of Anaheim St. (Ocean Ave.), on Associated Oil Co., Bryant lease. Use: Industrial. Casing: 12 inches. Gravel 70-92; 187-214. | 4 | *740 | (e) | 1/26/31 | ..... | ..... | ..... | 180 | 19 | ..... | ..... | ..... | ..... | ..... |
| C-911a-O-13 | Sunset Gun Club, E. of Seal Beach; 0.95 miles W. of Bolsa Chica St., 0.52 miles N. of Smeltzer Ave., at club house. Use: Domestic. Artesian well. Casting: 2 inches. | 11 | 18 | 776 | 3/ 7/32 | 541 | 0.61 | 91 | 1,357 | 391 | 1,380 | 0 | 41 | 40 | 1,259 |
| C-911b-N-13 | Test hole, NE. of Seal Beach; at SW. corner of intersection of Ocean Ave. and Los Alamitos Blvd. Casing: None. | 6 | 7 | 777 | 3/ 3/32 | 121 | 0.51 | 59 | 723 | 62 | 13 | 0 | 64 | 31 | 190 |
| C-911c-O-13 | F. B. Bixby, NE. of Seal Beach; 5 feet S. of Bixby Ave., 10 feet W. of Los Alamitos Blvd. (Norwalk Blvd.). Use: Irrigation and domestic. Casting: 12 inches. | 14 | x903 | 32 | 6/ 6/31 | 37.9 | ..... | 83 | 164 | 14 | 36 | 0 | 10 | 2 | 77 |
| C-911d-O-12 | Bryant Ranch, N. of Seal Beach; 300 feet E. of San Gabriel River channel, 0.3 miles S. of Ocean Ave. Use: Domestic and stock. Casing: 5 inches. | 7 | ..... | (e) | 11/12/31 | ..... | ..... | ..... | 188 | 20 | ..... | ..... | ..... | ..... | ..... |
| C-912c-O-13 | Hellman Ranch, S. of Los Alamitos; 30 feet S. of Ocean Ave., 25 feet W. of Bol. & Chen St. I. sc. Irrigation. | 20 | (x) | 31 | 6/ 6/31 | 45.4 | ..... | 36 | 214 | 18 | 39 | Tr. | 47 | 11 | 43 |
| C-912e-O-13 | Hellman Ranch, NE. of Seal Beach; on S. line of Westminster Blvd., 0.31 miles W. of Bolsa Chica St. Use: Irrigation. Casting: 10 inches. | 14 | x915 | 33 | 6/ 6/31 | 35.7 | ..... | 74 | 155 | 14 | 35 | 0 | 14 | 4 | 69 |
| C-912f-N-13 | Bryant Ranch, S.E. of Los Alamitos; 15 feet S. of Bryant Ave., 180 feet W. of Moody St. Use: Domestic and irrigation. | 29 | (x) | (d) | 4/13/31 | ..... | ..... | ..... | 116 | 89 | ..... | ..... | ..... | ..... | ..... |
| C-912g-N-13 | Hellman Ranch, SW. of Los Alamitos; 0.25 miles E. of Moody St., 50 feet S. of Bryant Ave. Use: Abandoned. Casing: 4 inches. | 14 | (d) | 7/28/31 | ..... | ..... | ..... | 140 | 16 | ..... | ..... | ..... | ..... | ..... | ..... |
| C-912p-N-13 | Bryant Ranch, S.E. of Los Alamitos; 15 feet S. of Bryant Ave., 180 feet W. of Moody St. Use: Domestic and irrigation. | 29 | (x) | (d) | 4/10/31 | ..... | ..... | ..... | 226 | 14 | ..... | ..... | ..... | ..... | ..... |

TABLE II. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Location number | Eleva- tion of ground | Total depth of well in feet | Labora- tory number | Date | Constituents (parts per million) | | | | | | | | |
|--------------|--|-----------------|-----------------------------|--------------------------------------|---------------------------|-----------------------------|---|--------------|--|-----------------------|--|--|----------------------|----------------------|----------------|
| | | | | | | | Specific elec- trical conduc- tance (K x 10 ⁻³ at 25°C.) | Boron ppm | Percent sodium boron ratio Na : 100 Ca + Mg + Na | Chlo- ride (Cl) | Sul- phate radicle (SO ₄) | Nitrate radicle (NO ₃) | Cal- cium (Ca) | Magni- um (Mg) | Sodium (Na) |
| C-927a-N-14 | Artesia Land Co. W. of Stanton; 500 feet S. of Katella Ave., 35 feet W. of Hansen Road. Use: Irrigation. | 1089A | 54 | *x1,100 | (c) (d) | 4/10/31 6/20/31 | ----- | ----- | 221 223 | 21 20 | Tr. | 56 | 12 | 45 | |
| C-927b-N-14 | Chas. W. Eckerle, W. of Stanton; 50 feet W. of Hansen Road, 200 feet N. of Cerritos Ave. (Spring st.). Use: Irrigation and domestic. Casing: 7 inches. | 1089 | 56 | x198 | 22 | 6/ 5/31 | 48.1 | 34 | 223 | 20 | 40 | Tr. | 56 | 12 | 45 |
| C-927c-N-14 | Bixby Ranch, SW. of Stanton; 20 feet W. of Hansen Road, 20 feet S. of Bixby Ave. Use: Irrigation and domestic. Casing: 12 inches. | 581B | 45 | x500 | 36 | 6/ 5/31 | 53.0 | 34 | 229 | 28 | 51 | 1 | 62 | 13 | 50 |
| C-927v-N-14 | Test hole, W. of Stanton; at SE. corner of Cerritos Ave. and Miller Road. Casing: None. | 1079A | 43 | 7 | 775 | 3/ 7/32 | 1,500 | 1.77 | 70 | 1,113 | 2,308 | 0 | 444 | 455 | 3,180 |
| C-948-L-14 | Homewood Mutual Water Co. Buena Park; 50 feet S. of 4th St., 65 feet W. of Stanton Ave. Use: Domestic and irrigation. Casing: 12 inches. Perforated 39-77; 153-159; 219-228; 378-398. | 1102C | 77 | *x400 | (f) | 4/22/31 | ----- | ----- | 232 | 58 | b105 | ----- | ----- | ----- | ----- |
| C-948-S-L-14 | Orange County Water District No. 2, Well 1. Buena Park; 90 feet S. of 4th St., 65 feet W. of Stanton Ave. Use: Municipal. Casing: 10 inches. Perforated 10-80; 124-134; 168-180. | 1102B | 77 | *x286 | (f) | 4/22/31 | ----- | ----- | 226 | 35 | b34 | ----- | ----- | ----- | ----- |
| C-948-S-M-14 | Test hole, S. of Buena Park; on S. line of Orangeborpe Ave., 90 feet W. of Western Ave. Casing: None. | 1094E | ----- | 10 | 774 | 3/ 7/32 | 95.1 | 0.30 | 43 | 345 | 48 | 122 | 44 | 59 | 105 |
| C-950L-M-14 | C. H. Hamilton, NE. of Cypress; 320 feet E. of Miller Road, 1,200 feet N. of Crescent Ave.; se. Irrigation. Casing: 12 inches. Perforated 549-563; 637-656; 687-727; 732-746. | 1075A | 57 | *750 | 8 | 5/22/31 | 51.1 | ----- | 33 | 232 | 21 | 53 | Tr. | 46 | 42 |
| C-950m-M-14 | Mr. Note (formerly F. A. Harrington). NE. of Cypress; 800 feet N. of La Palma Ave.; 0.6 miles W. of Haven Road. Use: Irrigation. Casing: 12 inches. Perforated 105-210; 235-246. | 1075B | 62 | *261 | 24 | 6/ 4/31 | 46.7 | ----- | 29 | 220 | 20 | 40 | Tr. | 52 | 13 |
| C-950y-M-14 | Dr. R. D. Temple, E. of Cypress; 610 feet E. of Miller Road, 80 feet N. of Lincoln Ave. Use: Domestic. | 1076A | 58 | ----- | 7 | 5/22/31 | 45.5 | ----- | 34 | 226 | 18 | 31 | 1 | 43 | 14 |
| C-968c-L-15 | F. W. Emery Estate, Well 1, E. of Buena Park; 150 feet N. of Artesia Ave., extended, 2,400 feet E. of Magnolia Ave., 600 feet N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 10 inches. Perforated 200-400. | 1132A | 90 | x400 | (g) (u) | 6/ 9/31 6/22/31 | 79.6 | 0.14 | 39 | 257 | 43 | 142 | 12 | 69 | 20 |
| C-968d-L-15 | F. W. Emery Estate, Well 3, E. of Buena Park; 150 feet N. of Artesia Ave., extended, 1,600 feet E. of Magnolia Ave., 400 feet N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 15 ₁ / ₄ inches. Perforated 100-225; 240-300. | 1122B | 95 | x590 | (g) (k) | 6/ 9/31 7/31/31 | 75.3 | 0.16 | 37 | 252 | 39 | 126 | 7 | 67 | 20 |
| C-970f-K-15 | Bastanchury Ranch Co., Red Tank Well 1. SE. of La Habra; 2,915 feet S. of Cedar Ave., 1,780 feet E. of Hiatt St. extended. Use: Irrigation. Casing: 14 inches. Perforated 41 ₁ / ₂ -5 ₁ / ₂ . | 1759 | 386 | *x701 | (k) (k) (b) | 1,921 6/ 9/31 6/22/31 | 105 | 0.30 0.21 | 49 | 277 | 110 | 180 | 0 | 66 | 31 |
| C-970j-K-15 | Bastanchury Ranch Co., North Laguna Well 1. SE. of La Habra; 5,120 feet S. of Cedar Ave., 2,670 feet E. of Hiatt St., 2,300 feet W. of State Highway. Use: Irrigation. Casing: 13 inches. Perforated 275-300; 300-475. | 1769 | 435 | *x727 | (k) (k) (b) | 1,921 6/ 9/31 6/22/31 | 128 | 0.50 | 61 | 329 | 115 | 189 | 0 | 68 | 16 |
| C-970n-K-15 | Bastanchury Ranch Co., Lake Well 2, SE. of La Habra; 3,855 feet S. of Cedar Ave., 2,365 feet E. of Hiatt St., extended, 2,000 feet W. of State Highway. Use: Irrigation. Casing: 15 ₁ / ₂ inches. Perforated 1-7-71 ₁ / ₂ . | 1769B | 317 | *x750 | (k) (k) (b) | 6/ 9/31 6/22/31 | 126 | 0.24 | 61 | 331 | 131 | 216 | 0 | 59 | 28 |
| C-970o-K-15 | Bastanchury Ranch Co., Leron Mesa Well 1, NW. of Fullerton; 1.0 miles N. of Artesia Ave., extended, 1.3 miles E. of Magnolia Ave., extended, 1,625 feet E. and 75 feet S. of NW. corner of Sec. 29, T. 3 S., R. 10 W. "B. & M. Use: Irrigation. Casing: 1 ₁ / ₂ inches. Perforated 154-170; 310-325, perforated 188-335. | 1141 | 338 | *x860 | (g) (b) | 6/ 9/31 6/22/31 | 123 | 0.30 0.15 | 44 | 331 | 156 | 119 | 9 | 80 | 35 |
| C-971c-L-15 | Bastanchury Ranch Co., Leron Mesa Well 1, NW. of Fullerton; 2,330 feet S. of Cedar Ave., 3,005 feet E. of Hiatt St., extended, 1,700 feet W. of State Highway. Use: Irrigation. Casing: 16 inches. Perforated 250-800. | 1141 | 260 | *x352 | (v) | June 1927 | ----- | ----- | 56 | 225 | 41 | 70 | ----- | 37 | 11 |

TABLE II. WILLS IN LOWER SANTA ANA RIVER AREA Continued

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and direction | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|----------------|---|-----------|--------------------------------|--|----------------------------|----------------------------|-----------------------------|------------------|--------------------|-----------------|
| | | | | | | Specific electric conductance ($K \times 10^6$ at $25^\circ C$) | Boron ppm | Percent sodium Na $\times 100$ | Bicarbonate radicle ($Ca + Mg + Na$) | Sulfate radicle (SO_4) | Nitrate radicle (NO_3) | Chloride radicle (Cl^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| C-974a-M-16 | Anaheim; Union Water Co., Crowther Well 6, NW. of Anaheim; 125 feet W. of Placentia Ave.; 75 feet S. of Orange Grove Ave.; 25 feet W. of Well 5. Use: Irrigation. Perforated 280-385; 120-135. | 15614E | 197 | *504 | 78 (9) | 6/17/31 2/3/32 | ..... | 34 | 278 | 59 52 | 9 | 77 | 18 | 62 | |
| C-974a-L-16 | Union Oil Co., Well 13, N. of Fullerton; 2,000 feet NW. of Brazil Rd.; 1,500 feet N. and 1,125 feet W. of Center of Sec. 22, T. 38, R. 10 W. S. R. & M. 1-se Irrigation. Casing: 20 inches. Perforated 300-327; 300-318; 1,634-383; 500-510. | 1180A | 324 | *653 | (b) (*) | 5/29/31 6/1/31 | 112 | 0.58 0.79 | 57 71 | 296 a373 | 167 116 | Tr | 20 30 | 48 23 | |
| C-975b-L-15 | C. G. Coggeshall, N. of Anaheim; 500 feet W. of Spadra Road; 100 feet N. of Orange Grove Ave. Use: Domestic. Casing: 7 inches. | 1174 | 149 | (x) | 4/17/31 | ..... | ..... | ..... | 146 | 271 | ..... | ..... | ..... | ..... |  |
| C-971a-M-16 | City of Anaheim, Well 6, Anaheim; 0.10 miles N. of La Palma St.; 225 feet W. of Park St.; 25 feet W. of Well 7. Use: Irrigation. Casing: 24 inches. Perforated 310-411; 460-483; 560-610. | 1185 | 156 | *637 | (1) | 4/22/31 | ..... | ..... | 252 | 41 | 655 | ..... | ..... | ..... |  |
| C-976b-M-16 | City of Anaheim, Well 7, Anaheim; 0.19 miles N. of La Palma St.; 200 feet W. of Park St.; 25 feet E. of Well 6, near Anaheim Sugar Co. plant. Use: Municipal. Casing: 24 inches. Perforated 1,214-1,215; 450-491; 515-608. | 1185A | 156 | *x042 | (1) 259 | 7/22/31 8/27/31 | 62.6 | ..... | 27 | 244 259 | 39 38 | 4 | 71 | 18 | |
| C-976c-M-15 | City of Fullerton, Well 1, N. of Anaheim; 363 feet N. of La Palma Ave.; 122 feet W. of Palm Ave. (Spadra Road). Use: Municipal. Casing: 12 inches. Perforated 310-335; 350-410. | 1175D | 153 | *x424 | (f) | 4/22/31 | ..... | ..... | 232 | 30 | 50 | ..... | ..... | ..... |  |
| C-979p-M-16 | Perry Mathis, S. of Anaheim; 35 feet S. of Ball Road; 60 feet W. of S. P. R. R. 0.21 miles E. of Los Angeles St. Use: Irrigation. Casing: 12 inches. Perforated 271-305; 317-401. | 1198 | 150 | *407 | 258 | 8/27/31 | 48.7 | ..... | 27 | a214 | 27 | 44 | 2 | 56 | 13 |
| C-980b-M-14 | D. R. Williams, S. of Buena Park; 100 feet N. of S. P. R. R. 200 feet W. of Magnolia Ave. Use: Irrigation and domestic. Casing: 7 inches. | 1124 | 97 | x140 | 334 | 9/19/31 | 93.0 | 0.19 | 22 | 284 | 83 | 142 | 1 | 116 | 23 |
| C-981-L-14 | Orange County Water Works District 2, Well 2, Buena Park; 75 feet S. of S. P. R. R. 150 feet W. of Grand Ave. Use: Municipal. Casing: 12 inches. Perforated 360-380. | 1103B | 73 | *x396 | (1) 63 | 4/22/31 6/17/31 | 63.1 | ..... | 32 | 226 232 | 18 18 | 35 49 | Tr | 52 | 19 |
| C-982a-M-14 | Dr. Lee C. Denning, N. of Stanton; 45 feet W. of Dale Ave.; 300 feet S. of Orange Ave. Use: Irrigation. Casing: 12 inches. | 1117A | 84 | x160 | 64 | 6/17/31 | 45.9 | ..... | 28 | 220 | 18 | 25 | 1 | 51 | 13 |
| C-983L-M-15 | P. A. Stanton, W. of Anaheim; 0.10 miles W. of Brookhurst Ave.; 240 feet S. of Crescent Ave. (Olive St.). Use: Irrigation and domestic. Casing: 10 inches. Perforated 111-115; 220-230; 250-305; 375-385; 402-415; 490-505; 519-520; 610-611; 681; 716-749. | 1146B | 110 | *x761 | 60 | 6/17/31 | 58.5 | ..... | 28 | 232 | 34 | 56 | 9 | 67 | 14 |
| C-984-N-11 | T. W. Clarke, W. of Stanton; 430 feet S. of Cerritos Ave.; 100 feet W. of Western Ave.; 10 feet SW. of C-3684b-N-14. Use: Domestic. Casing: 10 inches. | 1099 | 60 | (x) | 4/10/31 | ..... | ..... | ..... | a161 | 18 | ..... | ..... | ..... | ..... | ..... |
| C-985a-N-15 | Mrs. Anna B. Taylor, E. of Stanton; 350 feet N. of Cerritos Ave.; 1,200 feet E. of Magnolia Ave. Use: Irrigation and domestic. Casing: 10 inches. | 1128A | 84 | x170 | 67 | 6/17/31 | 62.9 | ..... | 31 | 238 | 23 | 52 | 1 | 62 | 13 |
| C-986j-N-15 | Chris Schneider, N. of Garden Grove; 160 feet S. of Kotella Ave.; 1,245 feet E. of Euclid Ave. Use: Irrigation. Casing: 16 inches. Perforated 160-161. | 1169 | 119 | 579 | (1) | 8/12/25 | ..... | ..... | 21 | 216 | 30 | 55 | ..... | 66 | 13 |
| C-989N-N-14 | American States Water Service Co., Stanton Well 1, Stanton; 1,400 feet W. of Dale Ave.; 120 feet S. of Cerritos Ave. Use: Municipal. Casing: 12 inches. | 1110B | 72 | (x) | 65 | 6/17/31 | 59.0 | ..... | 11 | 244 | 34 | 50 | 1 | 68 | 17 |
| C-987-N-15 | R. B. Woodside, W. of Garden Grove; 1,000 feet E. of Gilbert Ave.; 200 feet N. of Ocean Ave. Use: Irrigation and domestic. Casing: 12 inches. | 14432 | 75 | 167 | 16 | 5/23/31 | 61.4 | ..... | 29 | 235 | 39 | 62 | 11 | 66 | 15 |
| C-987L-O-14 | J. E. Webber, N. of Westminster; 0.25 miles W. of S. P. R. R.; 100 feet S. of Ocean Ave. Use: Not used. Sampled from large water tank. Casing: 7 inches. | 592A | 50 | x268 | (4) 6/13/31 | 2/28/31 3/27/31 | ..... | ..... | ..... | a241 a240 a241 | 20 18 18 | ..... | ..... | ..... | ..... |

TABLE II. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance (K x 10 ⁴ at 25°C) | Constituents (parts per million) | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|-----------------------|---|----------------------------------|---------------------|---|-----------------------|------------------------------------|
| | | | | | | | Boron ppm | Percent sodium | Bicarbonate radicle (Na x 10 ⁴ Ca + Mg + Na) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) |
| C-987m-N-14 | Pete Page, N. of Westminster; 400 feet E. of S. P. R. R., 1,000 feet N. of Ocean Ave. Use: Not used. Sampled from standing water. Casing: 7 inches. | 14402A | 57 | (x) | 2/28/31 (d) (d) | 2/28/31 (d) (d) | a220 a221 228 | 20 12 18 | | | |
| C-987n-O-14 | Owner unknown. N. of Westminster; 0.25 miles S. of Ocean Ave., 700 feet E. of Golden West St., near 4-foot concrete standpipe 20 feet N. of galvanized pump house. Use: Not used. Sampled from standpipe water. Casing: 12 inches. | 593B | 48 | x517 | 2/28/31 (d) (d) | 2/28/31 (d) (d) | 894 a49 a127 | 29 27 21 | | | |
| C-987u-N-15 | Ben Day, NW. of Garden Grove; 0.10 miles S. of Chapman Ave., 150 feet E. of Gilbert Ave. Use: Irrigation and domestic. Perforate 1/42, 158. | 14431B | 83 | *165 | 3/12 | 9/17/31 | 68.9 | 0.07 | 259 | 44 | |
| C-987z-N-15 | F. W. Seest, NW. of Garden Grove; 600 feet W. of Gilbert Ave., 100 feet N. of Chapman Ave. Use: Domestic. Casing: 4 inches. Perforated 80-90. | 14431D | 80 | 93 | 3/13 | 9/17/31 | 50.7 | 0.07 | 235 | 20 | 43 |
| C-988a-O-15 | N. M. Clinton, E. of Westminster; 150 feet W. of Cannery St., 400 feet S. of Westminster Ave. Use: Domestic and irrigation. Casing: 10 inches. Perforated 135-150. | 14424A | 55 | x153 | 3/15 | 9/17/31 | 55.4 | 0.07 | 233 | 30 | 53 |
| C-988b-N-15 | C. N. Jones, W. of Garden Grove; 1,000 feet W. of Magnolia Ave., 500 feet N. of Ocean Ave. Use: Domestic and irrigation. Casing: 8 inches. Perforated 74-40. | 14422C | 68 | 94 | 3/14 | 9/17/31 | 55.4 | 0.12 | 247 | 23 | 56 |
| C-989h-O-14 | R. F. Hazard, SE. of Westminster; 0.22 miles E. of Huntington Beach Blvd., 690 feet S. of Bolsa Ave. Use: Irrigation. Casing: 10 inches. Cased 70-50, 105, 315, 383. | 14415 | 34 | *402 | 9 | 5/23/31 | 55.3 | 28 | 223 | 34 | 54 |
| C-989k-O-14 | R. F. Hazard, SE. of Westminster; 290 feet S. of Bolsa Ave., 1,150 feet E. of Huntington Beach Blvd. Use: Domestic. Casing: 8 inches. | 14415A | 35 | 80 | 6 | 5/23/31 | 47.1 | ----- | 220 | 18 | 55 |
| C-990b-O-14 | Edwards Ranch (Hemstreet, lessor), SW. of Westminster; 75 feet W. of Golden West St., 0.5 miles S. of Westminster Ave. Use: Domestic. Casing: 6 inches. | 594A | 34 | x60 | 333 | 9/18/31 | 47.2 | 0.18 | 238 | 16 | 34 |
| C-991a-O-13 | West Shore Gun Club, E. of Seal Beach; 50 feet S. of Bolsa Ave., 50 feet W. of road 1.0 miles W. of Bolsa Chica St. Use: Irrigation. Supplies tanks. Flows part time. Casing: 12 inches. | 545 | 7 | x900 | (d) | 11/10/30 2/25/31 6/19/31 | ----- | ----- | 20 | ----- | ----- |
| C-991c-O-13 | Blue Wing Gun Club, E. of Seal Beach; 0.25 miles S. of Bolsa Chica Ave., 450 feet W. of Bolsa Chica St. on Gun Club property. Use: Irrigation. Supply tank. Casing: 233-240, 297-299. | 555B | 14 | *x320 | (d) | 11/10/30 | ----- | ----- | 192 | 20 | ----- |
| C-991t-O-13 | Blue Wing Gun Club, E. of Seal Beach; 350 feet W. of Bolsa Chica St., 75 feet S. of Bolsa Ave. Use: Not used. Flows part time and supplies lakes. Casing: 12 inches. | 555A | 15 | x700 | (d) 3/2/31 | 11/10/30 ----- | ----- | 162 a162 a180 | 18 14 | | |
| C-992m-P-14 | Z. D. Crane, W. of Winterburg; 250 feet E. of Springdale St., 150 feet S. of Hell Ave. Use: Domestic. Artesian part of strata. Casing: 4 inches. Then bottom well in first gravel strata. | 577E | 7 | 65 | 717 | 2/15/32 | 43.4 | 0.10 | 27 | 210 | 16 |
| C-992n-P-14 | E. Kettler, W. of Winterburg; 200 feet W. of Springdale St., 75 feet S. of Hell Ave. Use: Not used. Formerly domestic and irrigation, now covered up. | 577F | 11 | 300 | 718 | 2/15/32 | 35.1 | 0.28 | 80 | a198 204 | 14 |
| C-992o-O-14 | W. G. Lewis, S. of Westminster; 20 feet S. of Sugar Ave., 1,600 feet E. of Golden West St. Use: Irrigation. | 596B | 26 | 850 | 700 | 2/5/32 | 40.8 | 0.12 | 34 | 35 | 0 |
| C-993d-P-14 | Dibble-Chapman, N. of Winterburg; 315 feet W. of Huntington Beach Blvd., 0.22 miles S. of Snelitzer Ave., 50 feet N. of Holt St. Use: Domestic. Casing: 12 inches. Perforated 208-243; 247-258. | 14407 | 26 | *263 | 14 | 5/23/31 | 45.3 | ----- | 27 | 210 | 15 |
| C-993i-P-14 | C. A. Brush, NE. of Winterburg; 100 feet W. of Newland St., 550 feet S. of Heil Ave. Use: Irrigation. Casing: 7 inches. | 14417C | 28 | 240 | 698 | 2/5/32 | 42.9 | 0.08 | 28 | 210 | 13 |
| C-995d-P-13 | Long Beach Country Club, W. of Winterburg; 0.22 miles N. of Winterburg Ave., 0.22 miles E. of Graham St. Use: Irrigation and domestic. Casing: 12 inches. Perforated 475-525. | 578 | 35 | *537 | 34 | 6/5/31 | 34.3 | ----- | 86 | a192 14 | 7 |

TABLE II. WELLS IN LOWER SANTA ANA RIVER AREA Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C.) | Constituents (parts per million) | | | | | | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|------|--|----------------------------------|--|-----------------------------------|---------------------------------|-----------------------------|----------------|-------------|----|----|----|
| | | | | | | | Boron ppm | Percent sodium $Na \times 10^6$ $Ca + Mg + Na$ | Bicarbonate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Magnesium (Mg) | Sodium (Na) | | | |
| C-995e-P-14 | Mr. Buck, SW, of Wintersburg; 0.3 miles E. of Springdale St., 300 feet S. of Slater Ave. Use: Irrigation. Casing: 10 inches. | 589C | 5 | x500 | (d) | 11/7/30 1/26/31 3/3/31 3/20/31 6/18/31 | - | - | - | - | - | - | | | | |
| C-995g-P-14 | Mr. Slater, N. of Huntington Beach; 300 feet E. of Edwards St., 600 feet S. of Talbert Ave. Cased spring in open field. Use: Irrigation. Casing: 3 foot pt. Casing: 3 foot pt. | 13180 | 2 | (x) | (d) | 11/10/30 1/25/30 1/26/31 3/2/31 3/20/31 6/18/31 7/27/31 8/22/31 | - | - | - | - | - | - | | | | |
| C-995h-P-13 | Sunset Land and Water Co., P. of Sunset Beach; 50 feet N. of Los Patos Ave., 150 feet W. of Altonquin Ave. Use: Municipal. Casing: 6 inches. Perforated 333-357; 384-416. | 558 | 62 | *450 | (d) | 11/8/30 3/2/31 3/20/31 35 6/5/31 6/18/31 7/28/31 | - | - | - | - | - | - | | | | |
| C-995j-P-13 | Bolsa Chica Gun Club, Pumphouse 1, SE. of Seal Beach; 0.73 miles W. of Springdale St., 10 feet S. of Slater Ave., extended. Use: Domestic. Casing: 8 inches. | 569 | 10 | 54 | (d) | 11/7/30 1/26/31 3/2/31 3/21/31 81 6/19/31 7/28/31 8/27/31 | - | - | - | - | - | - | | | | |
| C-995m-P-13 | George J. McDonald, E. of Sunset Beach; Pumphouse 3, SE. of Seal Beach; 0.33 miles W. of Springdale St., 45 feet S. of Slater Ave., extended. Use: Irrigation. Supplies lakes. Artesian part of time. Perforated 292-332; 391-396; 721-749; 756-782; 840-888. | 579E | 8 | *917 | (d) | 11/7/30 1/29/31 6/19/31 6/23/31 8/27/31 | - | - | - | - | - | - | | | | |
| C-995n-P-13 | Mr. Ruoff, W. of Wintersburg; 200 feet S. of Wintersburg Ave., 175 feet W. of Springdale St. Use: Irrigation and domestic. Casing: 10 inches. Gravel 120-150; 184-200; 390-446. | 557C | 18 | x200 | (d) | 6/22/31 7/29/31 | - | - | - | - | - | - | | | | |
| C-995u-P-14 | Owner unknown. W. of Wintersburg; 400 feet S. of Wintersburg Ave., 20 feet W. of Graham St. drainage ditch. Use: Not used. Yields part time. Casing: 4 inches. | 578A | 8 | *x537 | (d) | 11/7/30 1/26/31 3/20/31 6/18/31 8/27/31 | - | - | - | - | - | - | | | | |
| C-995v-P-13 | Collins Bros., N. of Huntington Beach; 450 feet N. of Slater Ave., 30 feet W. of Springdale St. Casing in open field. Use: Irrigation. Casing: 14 inches. Perforated 70-82; 306-354. | 568B | 3 | (x) | (d) | 1/26/31 3/3/31 3/20/31 6/18/31 | - | - | - | - | - | - | | | | |
| C-995w-P-14 | Long Beach Country Club, Artesian Well 1. W. of Wintersburg; 125 feet N. of Wintersburg Ave., 600 feet E. of Graham St., in 17th fairway of golf course, interconnected to C-995e-P-13. Use: Artesian, sulphate-like. Casing: 3 inches. Impossible to tell from which well water comes as they are interconnected underground. Both wells are same depth and 200 feet apart. | 579B | 5 | *x354 | (d) | 1/26/31 3/2/31 3/20/31 | - | - | - | - | - | - | | | | |
| C-995u-P-13 | Long Beach Country Club, W. of Wintersburg; 1,000 feet E. of Graham St., 1,160 feet N. of Wintersburg Ave. Use: Irrigation and domestic. Casing: 4 inches. | 568C | 5 | 100 | 27 | 6/5/31 | 43.5 | 31 | 204 | 16 | 38 | Tr. | 48 | 11 | 34 | |
| C-995v-P-13 | Owner unknown. W. of Wintersburg; 300 feet W. of Graham St., 200 feet N. of Wintersburg Ave. Use: Not used. Casing: 5 inches. | 578B | 26 | 180 | 26 | 6/5/31 | 40.9 | - | 35 | 201 | 16 | 31 | 0 | 42 | 11 | 37 |
| C-995z-P-13 | | 568D | 4 | 10 | 714 | 2/15/32 | 68.9 | 0.08 | 28 | 183 | 85 | 75 | 1 | 74 | 17 | 45 |

TABLE II. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Date | Laboratory number | Constituents (parts per million) | | | | | | | | | |
|--------------|---|-----------------|---------------------|-----------------------------|------|-------------------|----------------------------------|-----------|--|---|---------------------------------------|---|--|---------------------------------|-----------------------------------|-------------------------------|
| | | | | | | | Percent sodium | Boron ppm | Percent sodium $\text{Na} \times 100$ $\text{Ca} + \text{Mg}$ + Na | Bear-bonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca^{2+}) | Magnesium (Mg^{2+}) | Sodium (Na^{+}) |
| C 995aa-P-13 | Test hole, W. of Wintersburg; 100 feet N. of Wintersburg Ave., 20 feet W. of Graham St. C, f, C, D. surface water test well 37. | 568E | 4 | ----- | (d) | 12/12/30 | ----- | ----- | ----- | 145 | 53 | ----- | ----- | ----- | ----- | |
| C 997-P-14 | A. Steek. N. of Huntington Beach; 100 feet S. of Talbert Ave., 300 feet W. of Golden West St. Use: Domestic. Casing: 6 inches. | 599 | 57 | x110 | (d) | 11/7/30 | ----- | ----- | ----- | 188 | 125 | 130 | 213 | 110 | 104 | |
| C 997e-Q-14 | The Texas Co., Huntington Beach; 90 feet S. of Yorktown St., 20 feet W. of Delaware Ave. Use: Not used. | 13202 | 53 | ----- | (d) | 11/25/30 | ----- | ----- | ----- | 220 | 224 | 224 | 224 | 71 | 33 | |
| C 997g-P-14 | A. Steek. N. of Huntington Beach; 100 feet S. of Talbert Ave., 100 feet W. of Golden West Ave. Use: Domestic. Casing: 6 inches. | 599C | 56 | x110 | (d) | 1/26/31 | ----- | ----- | ----- | 220 | 249 | 249 | 249 | 64 | 64 | |
| C 997h-Q-14 | American States Water Service Co., Well 2 (formerly Well 8). Huntington Beach; 180 feet W. of Huntington Ave., 25 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Perforated 80-115. | 13201C | 48 | *276 | (f) | 4/21/31 | ----- | ----- | ----- | 221 | 241 | 241 | 241 | 64 | 64 | |
| C 997j-Q-14 | American States Water Service Co., Well 1 (formerly Well 7). Huntington Beach; 20 feet W. of Huntington Ave., 25 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Perforated 100-118; 214-224, 232-254. | 13201A | 48 | *282 | (f) | 4/21/31 | ----- | ----- | ----- | 238 | 184 | 184 | 238 | 71 | 71 | |
| C 997j-Q-14 | American States Water Service Co., Well 4 (formerly Well 10). Huntington Beach; 185 feet W. of Huntington Ave., 80 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Gravel 78-126. | 13201B | 47 | *165 | (f) | 4/21/31 | ----- | ----- | ----- | 217 | 176 | 176 | 217 | 12 | 12 | |
| C 997k-Q-14 | American States Water Service Co., Well 3 (formerly Well 9). Huntington Beach; 20 feet W. of Huntington Ave., 180 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Perforated 90-111; 208-216; 228-238. | 13201D | 46 | *262 | (f) | 4/21/31 | ----- | ----- | ----- | 204 | 165 | 165 | 165 | 135 | 135 | |
| C 997u-P-14 | Holy Sugar Co., Huntington Beach; 300 feet E. of the east end of Bolsa Ave., 1,200 feet N. of Garfield St. Use: Domestic and industrial. | 13191A | 60 | (x) | 468 | 10/21/31 | 41.7 | 0.12 | 79 | 232 | 16 | 12 | 0 | 16 | 2 | 84 |
| C 997v-Q-14 | Mr. Turley, Huntington Beach; 20 feet E. of Sheltizer Ave., 200 feet S. of Garfield St. Use: Not used. Casing: 8 inches. Sampled at 100-foot depth. | 13191B | 75 | x208 | 469 | 10/21/31 | 537 | 3.22 | 37 | 198 | 1,757 | 14 | 0 | 474 | 110 | 432 |
| C 997w-Q-14 | G. Lacabonne, Huntington Beach; 80 feet S. of Yorktown St., 25 feet W. of Florida Ave. Use: Domestic and irrigation. Casing: 7 inches. | 13202A | 60 | 113 | 466 | 10/21/31 | 40.4 | 0.08 | 32 | 189 | 20 | 32 | Tr. | 42 | 10 | 32 |
| C 998d-O-15 | L. L. Bauer, E. of Westminster; 100 feet S. of Bolsa Ave., 70 feet E. of Wright St. Use: Domestic. Casing: 7 inches. | 14445A | 50 | x95 | 316 | 9/17/31 | 52.8 | 0.09 | 27 | 235 | 21 | 58 | 1 | 61 | 13 | 36 |
| C 998h-P-14 | American States Water Service Co., N. of Huntington Beach; 250 feet E. of Golden West St., 0.18 miles S. of Shaler Ave.; 1-se. Trapped municipal. Casing: 14 inches. Gravel 16-38; 40-85; 175-180; 254-256. | 599D | 4 | x282 | 332 | 9/18/31 | 44.4 | 0.11 | 31 | 210 | 16 | 42 | 1 | 46 | 11 | 34 |
| C 999b-P-14 | Ocean View Mutual Water Co., Wintersburg; 380 feet S. of Winterberg Ave., 820 feet E. of Huntington Beach Blvd., 180 feet E. of B St. Use: Municipal. Casing: 7 inches. | 14418 | 26 | ----- | 10 | 5/23/31 | 43.8 | ----- | 31 | 207 | 18 | 36 | 2 | 48 | 10 | 33 |

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | |
|--------------|--|---------------------|-----------------------------|-------------------|----------------|---|-----------|---|-----------------------|---------------------------------|------------------------------|--------------|-------|----------|
| | | | | | | Specific electrical conductivity ($K \times 10^6$ at 25°C) | Boron ppm | Percent sodium Na x 100 Ca + Mg + Na | Chloride radicle (Cl) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | | |
| E-999d-P-14 | Mr. Brewster, S. of Winterburg; 100 miles S. of Slater Ave., 300 feet W. of Huntington Beach Blvd., 100 feet N. of C St. Use: Domestic. Casing: 7 inches. | 14419 | 30 | x126 | (d) 11/7/30 | ..... | ..... | 205 | 23 | 206 213 217 204 18 | ..... | ..... |  |  |
| C-999f-P-14 | E. J. McCraven, SE. of Winterburg; 100 feet N. of Talbert Ave., 300 feet W. of Newland St. (Pennsylvania Ave.), Use: Domestic. Casing: 12 inches, in bottom of 12-foot pit. | 14419A | 48 | x150 | (d) 11/6/30 | ..... | ..... | 205 | 23 | 206 213 217 204 18 | ..... | ..... |  |  |
| C-999g-P-14 | Mrs. Crutcher, N. of Huntington Beach; 150 feet E. of Huntington Beach Blvd., 500 feet N. of Garfield St. Use: Not used since 1930. Casing: 7 inches. Sampled at 60-foot depth. | 13211 | 56 | x83 | 470 | 10/21/31 | 75.6 | 0.22 | 55 | 210 214 220 223 23 | 55 | 11 | 39 | |
| C-999w-P-14 | R. E. MacIntosh, N. of Huntington Beach; 0.37 miles S. of Ellis St., 200 feet W. of Huntington Beach Blvd. Use: Irrigation. Casing: 10 inches. Casing 11.25, 138, 150. | 13211B | 60 | *158 | 328 | 9/18/31 | 43.2 | 0.12 | ..... | 220 223 226 228 25 | 1 | 55 | 11 | |
| C-1007d-N-13 | Jack Denish, E. of Los Alamitos; 0.25 miles N. of Cerritos Ave., 20 feet E. of Moody St. Use: Domestic. | 1058 | 32 | ..... | (d) 4/10/31 | ..... | ..... | 198 | 18 | ..... | ..... | ..... | ..... |  |
| C-1007e-N-13 | Los Alamitos Sugar Co. Los Alamitos; 100 feet N. of Kettella Ave., 25 feet W. of Moody St. Use: Domestic. | 1059A | 28 | ..... | (d) 4/10/31 | ..... | ..... | 198 | 18 | ..... | ..... | ..... | ..... |  |
| C-1073-M-17 | Anaheim Eucalyptus Water Co. South Well, N. of Olive, 70 feet N. of Coronaada St., 120 feet W. of Downing St. Use: Irrigation. Casing: 18 inches. Perforated 211-225; 243-364; 439-483; 493-510. | 15644 | 211 | *x515 | (d) 2/10/32 | ..... | ..... | ..... | 68 | ..... | ..... | ..... | ..... |  |
| C-1078c-M-17 | Pilot Water Co. S. of Richfield; 300 feet N. of Norton St. (Corona Ave.) at angle, 400 feet W. of A. T. & S. F. Ry. Use: Irrigation. | 15654E | 238 | (x) | (d) 2/20/32 | ..... | ..... | 71 | ..... | ..... | ..... | ..... | ..... |  |
| C-1081j-L-18 | Anaheim Union Water Co. Holiday Well 2 (formerly Old Well 12), E. of Richfield; 75 feet N. end of Yorba Bridge, 700 feet S. of A. T. & S. F. Ry. 50 feet E. of Yorba Bridge Road. Use: Irrigation. Casing: 18 inches. Perforated 40-90. | 15714C | 279 | *x100 | 134 | 7/15/31 | 85.4 | ..... | 35 | 293 | 78 | 99 | 6 | 86 22 |
| C-1081m-L-19 | Santa Ana Valley Irrigation Co., Well 6, E. of Richfield; 1,000 feet N. of S. A. V. I. Co. Canal Mexican seabn. 1,000 feet W. of Santa Ana River, within Horse Shoe Bend, Lower Santa Ana River Canyon. Use: Irrigation. | 15762A | 350 | ..... | 227 | 8/13/31 | 86.5 | ..... | 33 | 284 | 87 | 100 | 2 | 85 25 |
| C-1082-L-18 | Goodwin Mutual Water Co. E. of Richfield; 350 feet S. of A. T. & S. F. Ry.; 0.7 miles E. of Richfield Road. Use: Irrigation. Casing: 18 inches. | 15683 | 260 | x200 | (d) 2/ 4/32 | ..... | ..... | 73 | ..... | 73 | ..... | ..... | ..... | ..... |
| C-1088a-L-16 | M. Morse, SW. of Placentia; 0.21 miles S. of Placentia-Yorba Blvd., 30 feet W. of dirt road in orange orchard, 0.19 miles W. of Melrose Ave. Use: Irrigation. | 15623C | 214 | x216 | (d) 4/11/32 | ..... | ..... | 27 | ..... | 27 | ..... | ..... | ..... | ..... |
| C-1085j-L-17 | Standard Oil Co. W. of Richfield; 30 feet N. of Placentia-Yorba Blvd., at point 200 feet E. of intersection with A. T. & S. F. Ry. Use: Industrial. | 15653E | 232 | x394 | (d) 5/ 2/32 | ..... | ..... | 110 | ..... | 110 | ..... | ..... | ..... | ..... |
| C-1096-L-17 | Chandler Canfield Midway Oil Co., Plant 2, S. of Olinda; 1,400 feet S. of Citrus Ave., 2,400 feet N. of Yorba Linda Blvd., 500 feet E. of Prospect St., 15 feet E. of A. T. & S. F. Ry. One of three wells. Use: Domestic supply for Olinda. | 15660 | ..... | ..... | (d) 4/11/32 | ..... | ..... | 35 | ..... | 35 | ..... | ..... | ..... | ..... |
| C-1096b-K-16 | City of Brea, Well 1. Brea; 0.77 miles SE. of Pomona Ave., 0.06 miles N. of Elm St., 100 feet W. of city limits. Use: Municipal. Casing: 14 inches. | 1819A | 305 | *680 | (t) 4/22/31 | ..... | ..... | 342 | 45 | b30 | ..... | ..... | ..... | ..... |
| C-1096i-K-16 | City of Brea, Well 2. Brea; 0.77 miles SE. of Pomona Ave., 0.06 miles N. of Elm St., 100 feet W. of city limits. Use: Municipal. Casing: 18 inches. Gravel 190-192; 208-210; 317-327; 342-348; 450-453; 535-538; 605-611. | 1819B | 332 | *616 | (t) 4/22/31 | ..... | ..... | 214 | 48 | b20 | ..... | ..... | ..... | ..... |

TABLE II. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|-------------|--|-----------|--------------------------------|-----------------------------------|-----------------------------|---------------------------------|------------------------------|
| | | | | | | | Specific electrical conductivity ($K \times 10^4$ at $25^\circ C$) | Boron ppm | Percent sodium $Na \times 100$ | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) |
| 1090dk-K-18 | La Vida Mineral Water Co., La Vida Spring, NE. of Olinda; 150 feet N. of Carbon Canyon Road near bottling plant, 1.35 miles SW. of Orange County line, 2.70 miles NE. of main street in Olinda. Use: Domestic. | 1906 | 790 | 2,035 | (1) | 9/12/29 | - | 5.14 | 97 | 3,187 | 940 | 0 | 0 |
| 1096L-K-16 | Union Oil Co., Syndicate Well 1, N. of Brea; 200 feet E. of Brea Road, 50 feet S. of Central Ave., extended. Use: Abandoned and filled in. Casing: 17 inches. Perforated 110-300; 420-735. | 1806 | 385 | *1125 | (1) | - | - | - | 49 | 423 | 589 | 1,181 | 215 |
| 1096m-K-16 | Union Oil Co., Union Well 4, S. of Brea; 100 feet N. of Golden Ave.; 200 feet E. of Pomona Ave. Use: Irrigation. Casing: 16 inches. Perforated 390-620. | 1809 | 362 | *x645 | (1) | Sept., '26 | - | - | 72 | 335 | 197 | 27 | 37 |
| 1096n-K-16 | Union Oil Co., Union Well 7, NE. of Brea; 2,300 feet E. of Pomona Ave.; 1,140 feet N. of Deodora St. Use: Irrigation. Casing: 16 inches. Perforated 390-730. | 1817A | 461 | *x930 | (1) | Dec., '27 | - | 0.26 | 62 | 485 | 173 | 43 | 38 |
| 1096o-K-17 | Union Oil Co., Union Well 8, NE. of Brea; 30 feet S. of Deodora St. at curve in street, 1,500 feet W. of Caroline St., extended. Use: Irrigation. Casing: 16 inches. Perforated 390-730. | 1837 | 471 | *x755 | (1) | Feb., 1928 | - | 0.45 | 67 | 651 | 229 | 85 | 42 |
| 1096p-K-17 | Union Oil Co., Union Well 10 (formerly Union Oil Co., Well Naranjal 1.0), W. of Olinda; 150 feet N. of Brea-Olinda Road, 0.86 miles W. of Caroline St., 300 feet W. of Valencia Ave. Use: Not used since 1927. Conglomerate 705-1196. | 1858 | 465 | *x255 | (1) | 4/11/27 | - | 0.18 | 39 | 342 | 103 | 91 | 68 |
| 1097-L-17 | H. H. Hale, N. of Placentia; 55 feet E. of Valencia Ave., 0.4 miles N. of Yorba Linda Blvd. Use: Domestic. | 15640 | 335 | x311 | (4) | 4/11/32 | - | 0.09 | 43 | 342 | 89 | 66 | 17 |
| 1097a-L-16 | Union Oil Co., Union Well 11, N. of Fullerton; 2,500 feet N. of Pioneer St., extended; 800 feet W. of Cypress Ave., extended. Use: Irrigation. Casing: 10 inches. Perforated 330-800; plugged at 1,635 feet. Converted oil well. | 15660 | 388 | *x3750 | (1) | June, '26 | - | - | 40 | 413 | 88 | 191 | 78 |
| 1097b-L-16 | Bastanchury Ranch Co., Amaramated Well L, NE. of Fullerton; NE 1/4 of Sec. 23, T. 3 S. R. 10 W. S. B. & M. Use: Domestic and irrigation. Casing: 9 inches. Perforated 360-388. Analysis of 10/26/28 is of water found about 310 feet. The 9-inch screw casing was then driven down to case off this water and bottom stratum, and later driven down to case off bottom stratum, and later analyses are of water from this stratum. | 15600A | 380 | x388 | (1) | Sept., '26 | - | - | 45 | 341 | 105 | 182 | 76 |
| 1097c-L-17 | Holy Development Co., Barnette Well 1, S. of Olinda; 800 feet S. of Golden Ave., 280 feet E. of Rose Drive. Water wasted into Carbon Canyon 1,200 feet S. of Golden Ave. | 15650 | 365 | - | (1) | April, 1931 | - | - | 51 | 346 | 121 | 138 | 71 |
| 1101-M-17 | Section 13 Water Co., E. of Anaheim; 30 feet W. of Rio Vista St., 1,850 feet S. of South St. Use: Irrigation. Casing: 16 inches. Perforated 6/5-70; 318-340. | 15627A | 185 | *x345 | (1) | 4/22/32 | - | - | 56 | 342 | 112 | 141 | 2 |
| 1124b-M-16 | City of Anaheim, Well 3., Anaheim; 125 feet E. of Los Angeles St., 150 feet S. of Santa Ana St., 25 feet W. of Well 4. Use: Municipal. Perforated 240-323. | 1187A | 149 | *x333 | (1) | 4/22/31 | - | - | 78 | 432 | 149 | 62 | 15 |
| 1124g-M-16 | City of Anaheim, Well 2, Anaheim; 100 feet E. of Los Angeles St., 150 feet S. of Santa Ana St., in red brick pump house, 20 feet W. of Well 1. Use: Municipal. (travel 86-125; 190-223; 268-329). | 1187B | 150 | *x333 | (1) | 4/22/31 | - | - | 54 | 321 | 140 | 120 | 57 |
| 1124h-M-16 | City of Anaheim, Well 4, Anaheim; 150 feet E. of Los Angeles Municipal. Perforated 248-323. | 1187C | 150 | *x335 | (1) | 4/22/31 | - | - | 54 | 321 | 140 | 120 | 57 |
| 1130a-N-15 | Wm. E. Schnitter, N. of Garden Grove; 0.2 miles E. of Euclid Ave., 0.12 miles N. of Chapman Ave., 8 feet from 10-inch irrigation well in same pit. Use: Domestic. Casing: 7 inches. Passed through water softener for domestic use. | 14461A | 106 | x128 | (1) | Nov., 1918 | - | - | 405 | 405 | - | - | - |
| 1130f-N-15 | A. D. Smier, Well 2, N. of Garden Grove; 1,500 feet N. of Chapman Ave., 350 feet W. of Euclid Ave. Use: Irrigation and domestic. Casing: 10 inches. Perforated 155-173-190. | 14450 | 102 | *x285 | (1) | 9/17/31 | - | - | 68.7 | 0.07 | 31 | 222 | 44 |
| 1130g-N-15 | Wm. E. Schnitter, N. of Garden Grove; 0.2 miles E. of Euclid Ave., 0.12 miles N. of Chapman Ave., 8 feet from 10-inch irrigation well in same pit. Use: Domestic. Casing: 7 inches. Passed through water softener for domestic use. | 14451 | 106 | 8/27/31 | - | - | - | - | - | 27 | 233 | 48 | 40 |
| 1130h-N-15 | A. D. Smier, Well 2, N. of Garden Grove; 1,500 feet N. of Chapman Ave., 350 feet W. of Euclid Ave. Use: Irrigation and domestic. Casing: 10 inches. Perforated 155-173-190. | 14452 | 102 | - | - | - | - | - | - | 22 | 256 | 77 | 94 |

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance ($K \times 10$ at 25°C) | Constituents (parts per million) | | | | | | | | |
|--------------|---|-----------------|---------------------|-----------------------------|------------------------|-----------------------|---|----------------------------------|--|-----------------------------|-------------------------------|-------------------------------|----------------|----------------|------------|-------|
| | | | | | | | | Boron ppm | Percent sodium Na $\times 100$ $(\text{Ca} + \text{Mg} + \text{Na}) / (\text{HCO}_3)$ | Chloride radicle (Cl $^-$) | Sulfate radicle (SO $^{4-}$) | Nitrate radicle (NO $^{3-}$) | Magnesium (Mg) | Sodium (Na) | | |
| C-1130b-N-15 | A. D. Smiley, Well 1, N. of Garden Grove; 1,500 feet N. of Chapman Ave., 377 feet W. of Huclid Ave., 27 feet W. of C-1130b-N-15. Use: Not used. Casing: 7 inches. Perforated 122-170; and possibly from 90-105. | 14450A | 102 | 170 | (4) | Nov. 1918 | ..... | 24 | 244 | 47 | 44 | 2 | 73 | 14 | 35 | |
| C-1154e-O-15 | Mrs. A. F. Mills, S. of Garden Grove; 275 feet W. of Verano St., 150 feet S. of Trask Ave., extended. Use: Irrigation. Casing: 12 inches. Perforated 134-168. | 14463A | 81 | *182 | (4) | 7/3/31 | ..... | ..... | ..... | 45 | ..... | ..... | ..... | ..... | ..... |  |
| C-1157b-N-15 | Edward Chaffee, Garden Grove; 0.25 miles N. of Ocean Ave., 200 feet W. of Nutwood St., NW of house and just E. of pump house. Use: Domestic and irrigation. Casing: 16 inches. Gravel 90-138; 164-190; 200-212. | 14452A | 85 | (x) | (4) | 4/14/31 6/22/31 | ..... | ..... | 106 205 | 50 50 | ..... | ..... | ..... | ..... | ..... |  |
| C-1158-N-10 | W. W. Duncan, E. of Garden Grove; 550 feet N. of Ocean Ave., on W-line of Buaro St., extended. Use: Irrigation. Casing: 16 inches. Gravel 90-138; 164-190; 200-212. | 14482A | 103 | *216 | 267 | 8/27/31 | 58.5 | 28 | 253 | 30 | 52 | 9 | 66 | 15 | 40 | |
| C-1160-O-16 | George R. W. Roberts, SE of Garden Grove; 530 feet N. of Buaro St., 600 feet S. of 17th St. (Westminster Ave.). Use: Domestic and irrigation. Casing: 7 inches. | 14484 | 86 | x140 | 309 | 9/17/31 | 85.7 | 0.08 | ..... | 305 | 59 | ..... | ..... | ..... | ..... |  |
| C-1160a-O-16 | W. M. Paquette, SE. of Garden Grove; 100 feet W. of Buaro St., 600 feet S. of 17th St. (Westminster Ave.). Use: Domestic. Casing: 2 inches. | 14484E | 85 | 18 | 310 | 9/17/31 | 116 | 0.17 | 26 | 333 | 94 | 187 | 18 | 124 | 34 | 74 |
| C-1163a-O-16 | F. M. Clingan, SE. of Garden Grove; 50 feet S. of 17th St., 80 feet W. of Berwyn Ave., extended. Use: Domestic, perched water. O. C. F. C. D. surface water Well 218. | 14494B | 97 | 20 | (4) | 9/19/32 633 | 187 | 0.58 | 51 | 408 461 | 250 176 | 361 | 27 | 104 | 63 | 247 |
| C-1163b-O-16 | C. L. Coulson, SE. of Garden Grove; 300 feet W. of Berwyn Ave., extended, 100 feet S. of 17th St. Use: Not used. Casing: 5 inches. | 14494C | 97 | 14 | 634 | 1/14/32 | 166 | 0.40 | 55 | 723 | 131 | 161 | Tr. | 90 | 48 | 237 |
| C-1166-O-15 | S. D. Teal, S. of Garden Grove; 340 feet E. of Newhope St., 0.26 miles S. of 17th St. (Westminster Ave.). Use: Irrigation and domestic. Casing: 12 inches. Gravel 154-178; 192-211. | 14474A | 78 | *211 | 13 | 5/23/31 | 58.6 | ..... | 27 | 259 | 32 | 53 | 2 | 69 | 15 | 40 |
| C-1167e-O-16 | M. C. Heacock, W. of Santa Ana; 785 feet E. of Buaro St., 640 feet N. of Siskar Ave. Use: Irrigation and domestic. Casing: 8 inches. | 14486 | 71 | x163 | 15 | 5/23/31 | 60.1 | ..... | 28 | 268 | 28 | 57 | 4 | 69 | 15 | 43 |
| C-1167k-O-15 | State of California, W. of Santa Ana; 270 feet S. of 5th St., 700 feet W. of Newhope St. Use: Irrigation at U. S. G. S. evaporation station | 14475 | 70 | (4) | 11/29/30 (4) (4) | 91.6 | ..... | 17 | 261 | 57 | ..... | ..... | ..... | ..... | ..... |  |
| C-1167h-O-15 | B. Brown, W. of Santa Ana; 900 feet W. of Newhope St., 40 feet S. of 5th St. Use: Domestic. | 14465C | 70 | - | 608 | 1/28/32 | 77.2 | 0.12 | ..... | 284 | 55 | ..... | 98 | 29 | 34 | |
| C-1167j-O-16 | C. W. Blackenbecker, W. of Santa Ana; 115 feet W. of Buaro St., 20 feet S. of 5th St., 10 feet N. and 10 feet E. of old recorder well. Use: Domestic. Casing: 12 inches. Perforated 1105-115. | 14485B | 72 | 115 | 318 | 9/17/31 (4) (4) | 77.6 | 0.09 | 23 | 284 | 53 | 89 | 11 | 95 | 18 | 44 |
| C-1167k-O-16 | Test hole, W. of Santa Ana; 30 feet S. of 5th St., 155 feet W. of Buaro St., 40 feet W. of C-1167j-O-15. Use: Irrigation. O. C. F. C. D. surface water Well 217. | 14485C | 72 | x10 | 317 | 9/17/31 636 666 | 198 1/18/32 1/28/32 | 1.11 0.89 0.98 | 81 78 78 | 878 877 899 | 98 103 105 | 53 49 40 | 41 54 41 | 28 49 41 | 414 482 | |
| C-1168a-O-15 | Mrs. A. F. Mills, S. of Garden Grove; 100 feet N. of 17th St. (Westminster Ave.), 100 feet W. of Verano St. Use: Domestic. | 14464B | 73 | 20 | 635 | 1/19/32 | 137 | 0.57 | 67 | 342 | 103 | 243 | 44 | 50 | 26 | 225 |
| C-1168a-O-15 | D. C. Powers, W. of Santa Ana; 0.32 miles S. of Smeltzer Ave., 25 feet E. of Buaro St. Use: Irrigation. Casing: 10 inches, Gravel 125-135. | 14487A | 57 | *141 | 12 | 5/23/31 | 55.8 | ..... | 29 | 238 | 32 | 50 | 6 | 62 | 13 | 40 |
| C-1202g-P-15 | G. M. Henson, E. of Wintersburg; 50 feet W. of Newhope St., 120 feet N. of Huntington Beach. Use: Domestic. | 14478A | 43 | 110 | 676 | 1/28/32 | 45.5 | 0.08 | 30 | 217 | 18 | 38 | 0 | 50 | 12 | 34 |
| C-1255 P-15 | Mr. Clancy, N.E. of Huntington Beach; 50 feet S. of Talbert Ave.; 150 feet W. of Ward St. Use: Irrigation and domestic. Casing: 8 inches. | 14459 | 27 | x150 | (4) | 9/17/31 (4) | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | |
|--|--|-----------------|---------------------|-----------------------------|-------------------|---------|----------------------------------|--|----------------|------------------------------------|--|-------------------------------------|
| | | | | | | | Boron ppm | Specific electrical conductivity ($K \times 10^6$ at $23^\circ C$) | Percent sodium | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) |
| C-1256a-P-15 | John E. Brewer, NE. of Huntington Beach; 50 feet W. of Bushard St., 100 feet S. of Talbert Ave. Use: Domestic. Casing: 8 inches. | 14439A | 24 | (x) | (4) | 2/25/31 | ..... | ..... | 213 | 23 | ..... | ..... |
| Otto Faulkins, NE. of Huntington Beach; 0.27 miles S. of Talbert Ave., 300 feet W. of Bushard St. Use: Domestic. Casing: 6 inches. | 13230 | 22 | x150 | (4) | 3/18/31 | ..... | ..... | 216 | 216 | 27 | ..... | ..... |
| H. J. Lamb, NE. of Huntington Beach; 200 feet W. of Bushard St., 0.5 miles S. of Garfield Ave. Use: Domestic. Casing: 7 inches. | 13231 | 12 | x150 | (4) | 4/ 9/31 | ..... | ..... | 215 | 215 | 25 | ..... | ..... |
| H. T. Grove, N. of Huntington Beach; 800 feet S. of Talbert Ave., 250 feet E. of Huntington Beach Blvd. Use: Domestic and irrigation. Casing: 7 inches. | 13210C | 55 | x135 | (4) | 11/ 6/30 | ..... | ..... | 210 | 210 | 20 | 16 | ..... |
| Associated Oil Co., NE. of Huntington Beach; 100 feet S. of Garfield St., 0.35 miles E. of Huntington Beach Blvd., 150 feet E. of boiler plant at Huntington Beach tank farm. Use: Boiler feed and domestic. Casing: 10 inches. Perforated 130-145; 168-182. | 13211C | 57 | *182 | 59 | 6/16/31 | 45.6 | ..... | 208 | 208 | 16 | 16 | ..... |
| T. Yoshikawa, NE. of Huntington Beach; 100 feet W. of Cannery St., 80 feet S. of Garfield St. Use: Domestic. Casing: 3 inches. | 13221B | 13 | 90 | 330 | 9/18/31 | 44.4 | 0.13 | 216 | 216 | 20 | 16 | ..... |
| Orange County, Cities Joint Outfall Sewer District, NE. of Huntington Beach; 600 feet S. of Ellis Ave., 100 feet W. of Verano St., extended. Use: Domestic and sewer plant supply. Casing: 5 inches. | 13260A | 26 | x160 | 241 | 8/20/31 | 45.8 | ..... | 220 | 220 | 20 | 16 | ..... |
| Robert Gisher, NE. of Huntington Beach; 600 feet S. of Garfield St., 600 feet E. of Ward St. Use: Irrigation. Casing: 10 inches. | 13251B | 18 | 140 | 694 | 2/ 5/32 | 55.5 | 0.10 | 219 | 219 | 23 | 18 | ..... |
| F. F. Fairweather, Huntington Beach; 250 feet N. of Indianapolis St., 200 feet E. of Hampshire Ave. Use: Domestic. Casing: 8 inches. | 13213C | 28 | x102 | 327 | 9/18/31 | 40.3 | 0.10 | 198 | 198 | 12 | ..... | ..... |
| T. Long, Huntington Beach; 50 feet S. of Hartford St., 130 feet E. of Huntington Ave. Use: Not used. Casing: 7 inches. Sampled at 50-foot depth. Water has H ₂ S odor. | 13203C | 50 | x90 | 457 | 10/19/31 | 48.0 | 0.28 | 44 | 192 | 60 | 2 | 0 |
| Mr. Renick, Huntington Beach; 100 feet N. of Elmira St., 120 feet E. of California Ave. Use: Not used. Casing: 7 inches. Sampled at 40-foot depth. | 13203D | 31 | (x) | 461 | 10/19/31 | 52.1 | 0.25 | 48 | 149 | 98 | 2 | 0 |
| L. W. Cady, Huntington Beach; 100 feet S. of Indianapolis St., 525 feet E. of Delaware Ave. Use: Not used. Casing: 7 inches. Sampled at 40-foot depth. | 13203E | 33 | x130 | 464 | 10/19/31 | 56.9 | 0.14 | 54 | 223 | 62 | 24 | 0 |
| Mr. Newland, NE. of Huntington Beach; 450 feet N. of Quince St., 150 feet E. of Hampshire Ave. Use: Domestic. Casing: 16 inches. Perforated above plug at 600 feet. Converted oil well. | 13212E | 53 | x600 | 467 | 10/21/31 | 48.9 | 0.31 | 82 | 311 | 16 | 0 | 0 |
| Thompson Oillease, Huntington Beach; 150 feet E. of Hampshire Ave., 50 feet N. of Knoxville St., extended. Use: Domestic. Casing: 7 inches. W. S. P. 137, Well No. 1286, Santa Ana Quad. | 13213B | 30 | x133 | 465 | 10/19/31 | 373 | 0.08 | 54 | 223 | 14 | 10 | 0 |
| Mr. Newland, E. of Huntington Beach; 0.25 miles W. of Camery St., 120 feet S. of Indianapolis St. Use: Not used. Casing: 10 inches. | 13223 | 6 | (x) | (4) | 11/ 5/30 | ..... | ..... | 207 | 207 | 16 | 14 | 14 |
| (*)-1256f-Q-14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| C-1256g-Q-14 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance (K x 10 ⁶ at 25°C) | Boron ppm | Percent sodium Na x 100 Ca + Mg + Na | Chloride radicle (HCO ₃) | Silicate radicle (SO ₄) | Nitrate radicle (NO ₃) | Calcium (Ca) | Magnesium (Mg) | Constituents (parts per million) | | |
|--------------|---|-----------------|---------------------|-----------------------------|-------------------|----------|---|-----------|--------------------------------------|--|---------------------------------------|------------------------------------|--------------|----------------|----------------------------------|-------|-------|
| | | | | | | | | | | | | | | | | | |
| C-1260a-Q-15 | Owner unknown. E. of Huntington Beach; 150 feet N. of Indianapolis St., 150 feet W. of Cannery St., on old pickle factory site. 1 st c. Irrigation. Casing: 4 inches. | 13223A | 8 | (x) | (d) | 6/22/31 | ----- | ----- | a264 a186 | 139 139 150 | ----- | ----- | ----- | ----- | ----- | ----- | |
| C-1261-Q-14 | Standard Oil Co. (lessee), Gisler Well 1. E. of Huntington Beach; 0.3 miles W. Newland St. drainage ditch and 250 feet S. of Atlanta Ave. Abandoned oil well casing with large wooden plug. Use: Not used. Casing: 16 inches. Perforated 100-180. Sampled 10/19/31 at 100-foot depth. | 13214 | 5 | *x439 | (e) | 11/ 5/30 | ----- | ----- | ----- | 111 a134 | 30 34 | ----- | ----- | ----- | ----- | ----- | ----- |
| C-1261b-Q-14 | Dave Stewart, Huntington Beach; 150 feet E. of Delaware Ave.; 130 feet S. of Frankfort St. Use: Domestic. Casing: 7 inches. | 13203A | 30 | x144 | (e) | 1930 | ----- | ----- | ----- | a209 a173 | 87 32 12 | ----- | ----- | ----- | ----- | ----- | 36 |
| C-1261c-Q-14 | Mr. Brown, Huntington Beach; 80 feet N. of Hartford St., 100 feet W. of California Ave. Use: Domestic. | 13203B | 52 | 110 | (d) | 2/ 2/31 | ----- | ----- | ----- | a206 a218 a238 | 87 62 16 | ----- | ----- | ----- | ----- | ----- | ----- |
| C-1261d-Q-14 | Mr. Thompson, Huntington Beach; 150 feet N. of Quincy St. (Adams St.), 25 feet SE. of Wardlow Oil Well, 0.10 miles W. of Hampshire Ave. Use: Not used since April 1931 (formerly down to c.). | 13212 | 31 | 122 | (d) | 12/ 6/30 | ----- | ----- | ----- | a206 a227 a229 | 37 11 46 | ----- | ----- | ----- | ----- | ----- | ----- |
| C-1261e-Q-14 | Mrs. Spoonhaer, Huntington Beach; 100 feet W. of Delaware Ave.; 130 feet N. of Lincoln St. Use: Domestic. | 13203 | 32 | ----- | (d) | 12/ 6/30 | ----- | ----- | ----- | a206 a227 a229 | 37 11 46 | ----- | ----- | ----- | ----- | ----- | 45 |
| C-1261f-Q-14 | Owner unknown. E. of Huntington Beach; 50 feet W. of Hampshire St., 250 feet S. of Indianapolis Ave. Use: Not used. Casing: 8 inches. Sampled from surface of standing water. | 13213 | 5 | ----- | (d) | 12/ 6/30 | ----- | ----- | ----- | a197 a194 a226 | 38 39 35 | ----- | ----- | ----- | ----- | ----- | ----- |
| C-1261g-Q-14 | Standard Oil Co., Farnsworth Egg Water Well 2A. E. of Huntington Beach; 160 feet E. of Hampshire Ave.; 201 feet N. of Atlanta Ave. 1 st c. Industrial. Casing: 20 inches. Gravel 163-333. | 13214B | 4 | *333 | (x) | 9/18/31 | 96.5 | 0.09 | 24 | 195 | 190 | 35 | 0 | 105 | 23 | 53 | |
| C-1261w-Q-14 | T. S. Ban, (lessee). E. of Huntington Beach; 30 feet S. of Atlanta Ave., 1 mile E. of Late Ave., 100 feet W. of Newland St. ditch. Use: Domestic. | 13224E | 5 | ----- | (d) | 9/18/31 | 41.4 | 0.11 | 35 | 204 | 12 | 32 | 0 | 43 | 10 | 37 | |
| C-1262a-Q-15 | Sam Gisler, E. of Huntington Beach; 450 feet E. of Cannery St., 200 feet N. of Atlanta St. Use: Domestic. | 13234 | 5 | ----- | (d) | 9/18/31 | 40.3 | 0.31 | 37 | 204 | 13 | 31 | 0 | 42 | 8 | 35 | |
| C-1262b-Q-15 | R. L. Farnsworth, E. of Huntington Beach; 0.25 miles N. of Atlanta Ave., 150 feet W. of Bushard St. Use: Domestic. Casing: 6 inches. Open bottom well. | 13233 | 8 | x150 | (d) | 11/ 6/30 | ----- | ----- | ----- | a214 a290 a298 a400 a325 a302 | 14 109 104 350 196 224 | 14 17 18 20 18 77 | 1 | 37 | 23 | 210 | |
| C-1262b-Q-15 | Mr. Sasoku, NW. of Newport Beach; 0.37 miles S. of Adams Ave. 1.5 miles W. of Fairview Ave. Between Santa Ana River and the mesa, on E. side of river. Use: Irrigation. Casing: 12 inches. Gravel 109-158; 210-243; 278-286. | 13253 | 15 | *303 | (m) | 1/ 7/32 | 50.6 | 0.40 | 85 89 | 222 222 30 | 21 30 20 | ----- | ----- | 8 | 4 | 95 | |

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

| Well number | Location and description | Elevation of ground surface | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity (K_x at 25°C) | Constituents (parts per million) | | | | | | | | | |
|-------------|--|-----------------------------|-----------------------------|-------------------|---------|---|----------------------------------|-----------|-----------------------------|---------------------------------|------------------------------|----------------------|--------------------|-------|-------|-------|
| | | | | | | | Percent sodium | Boron ppm | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (C_{Ca}) | Magnesium (Mg) | | | |
| 32k-Q-15 | Mr. Myers, NW of Newport Beach; 1.65 miles W. of Fairview Ave., 500 feet N. of Wilson St., extended, between Santa Ana River and the mesa on E. side of river. Use: Irrigation. Casing: 16 inches. | 13254A | 8 | 300 | 655 | 1/26/32 | 106 | 1.12 | 93 | 314 | 201 | 0 | 4 | 10 | 3 | 224 |
| 33-Q-14 | T. S. Ban (lessee), E. of Huntington Beach; 0.25 miles S. of Atlanta Ave., 400 feet E. of Newland St. Wellpoint on surface water, at recorder well C 1235a-Q-14. Test well. Casing: 1½ inches. | 13224C | 2 | (x) | 643 | 1/19/32 | 740 | ----- | ----- | 2,432 | ----- | ----- | ----- | ----- | ----- | ----- |
| 33a-Q-14 | T. S. Ban (lessee), E. of Huntington Beach; 400 feet E. of Pennsylvania Ave., drainage ditch, 0.25 miles S. of Atlanta Ave. Use: Not used. Casing: 1½ inches. D. W. R. Lab. Nos. 273 and 458 were sampled 6 feet below top of casing or just under water surface, and D. W. R. Lab. No. 458 was sampled 100 feet below top of casing. O. C. F. C. D. has automatic water level recorder on well. | 13224A | 2 | (x) | (e) | 1/26/31 | ----- | ----- | ----- | 175 | 16 | ----- | ----- | ----- | ----- | 56 |
| 33b-Q-14 | T. S. Ban (lessee), E. of Huntington Beach; 0.2 miles S. of Atlanta Ave., 900 feet E. of Newland St. (Pennsylvania Ave.) drainage ditch, 500 feet E. of C-1263a-Q-14. Use: Not used, formerly irrigation. Casing: 10 inches. | 13224B | 3 | (x) | (d) | 11/6/31 | ----- | ----- | ----- | 175 | 16 | ----- | ----- | ----- | ----- | ----- |
| 33c-Q-14 | Mr. Gisler, E. of Huntington Beach; 0.15 miles S. of Atlanta Ave., 0.25 miles W. of Bushard St. Use: Not used, formerly irrigation and domestic. Casing: 6 inches. | 13234A | 7 | x200 | (d) | 11/6/30 | ----- | ----- | ----- | 175 | 16 | ----- | ----- | ----- | ----- | 47 |
| 36-Q-15 | Laguna Beach County Water District, Well 2, E. of Huntington Beach; 100 feet W. of Bushard St., 800 feet S. of Atlanta Ave. Use: Municipal. Casing: 16 inches. Perforated 98-143. | 13234B | 8 | *x190 | (d) | 11/7/30 | ----- | ----- | ----- | 198 | 21 | ----- | ----- | ----- | ----- | 47 |
| 35-Q-15 | The Irvine Co., Santa Ana River Well 2, E. of Huntington Beach; 875 feet E. of Bushard St., 1,890 feet S. of Atlanta Ave. Middle well of three. Use: Not used. Casing: 18 inches. Perforated 100-125. | 13234B | 7 | *x155 | (k) | Dec, 1927 | ----- | ----- | ----- | 216 | 12 | ----- | ----- | ----- | ----- | 47 |
| 36a-Q-15 | The Irvine Co., Santa Ana River Well 1, E. of Huntington Beach; 950 feet E. of Bushard St., 1,390 feet S. of Atlanta Ave. North well of three. Use: Not used. Casing: 18 inches. Perforated 145-150. | 13234C | 8 | *x410 | 42 | 6/13/31 | 41.0 | 42 | 42 | 204 | 16 | 24 | 0 | 39 | 10 | 45 |
| 36b-Q-15 | City of Newport Beach, Newport Beach Well 4, E. of Huntington Beach; 85 feet E. of Bushard St., 265 feet S. of road which is 5 miles S. of Atlanta Ave. Use: Municipal. Casing: 18 inches. Perforated 100-200. Water has H ₂ S odor. | 13235C | 6 | *x234 | (e) | 11/15/30 | ----- | ----- | ----- | 225 | 82 | 23 | 32 | 10 | 32 | 57 |
| 36b-Q-15 | Newport Mesa Irrigation District, Well 4, E. of Huntington Beach; 0.3 miles E. of Bushard St., 150 feet S. of road which is 5 miles S. of Atlanta Ave. Use: Irrigation and domestic. Casing: 18 inches. Perforated 145-245. | 13245 | 6 | *x270 | (e) | 11/5/30 | ----- | ----- | ----- | 205 | 26 | ----- | ----- | ----- | ----- | 52 |
| 36d-Q-15 | Newport Mesa Irrigation District, Well 4, E. of Huntington Beach; 85 feet E. of Bushard St., 150 feet S. of road which is 5 miles S. of Atlanta Ave. Use: Irrigation and domestic. Casing: 18 inches. Perforated 145-245. | 13245 | 6 | (e) | 6/13/31 | 110.3 | 40 | 45 | 45 | 207 | 50 | 0 | 40 | 10 | 50 | 57 |

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^{-3}$ at 25°C) | Constituents (parts per million) | | | | | |
|--------------|--|---------------------|-----------------------------|-------------------|------|---|---|----------------|-----------------------------------|----------------------------------|------------------------------|-----|
| | | | | | | | Boron ppm | Percent sodium | Bicarbonate radicle (HCO_3^-) | Sulphate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | |
| C-1208g-Q-15 | City of Newport Beach, Well 16, E. of Huntington Beach; 220 feet E. of Bushard St., 265 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Municipal. Casing: 18 inches. Perforated 190-142. | 13235 | 6 | *330 | (t) | 4/21/31 | ..... | ..... | 214 | 66 | b0 | |
| C-1208i-Q-15 | City of Newport Beach, Well 5, E. of Huntington Beach; 220 feet E. of Bushard St., 415 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Municipal. Casing: 18 inches. Perforated 190-260, 276-306, 312-330. | 13235B | 6 | *336 | (t) | 4/21/31 1/28/32 | 57 6 0 26 | ..... | 229 | 48 | b18 | |
| C-1260-Q-15 | Fairview Farms, E. of Huntington Beach, 0.75 miles E. of Bushard St., 150 feet N. of road which is 0.5 miles S. of Atlanta Ave., 300 feet E. of east levee of Santa Ana River. Use: Not used. Casing: 16 inches. Sampled from surface of standing water. | 13254 | 8 | (x) | (d) | 11/25/30 (d) 2/25/31 (d) 3/18/31 (d) 6/6/31 | ..... | 551 | 695 | ..... | ..... |  |
| C-1269b-Q-15 | Fairview Farms, Well 2, E. of Huntington Beach; 1,050 feet E. of Bushard St., 10 feet S. of road which is 0.5 miles S. of Atlanta Ave., 50 feet W. of C-1269a-Q-15. 20 feet W. of pump house. Use: Irrigation and municipal. Casing: 12 inches. | 13245H | 7 | 290 | (d) | 6/13/31 (d) 7/8/31 (d) 7/27/31 (d) 8/22/31 | 826 74 | 250 | 142 | 2 | 0 | |
| C-1270-Q-15 | Fairview Farms, Well 3, E. of Huntington Beach; 1,830 feet E. of Bushard St., 75 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Irrigation and municipal. Casing: 18 inches. Gravel 120-267. | 13245A | 7 | *x270 | (d) | 11/5/30 (d) 11/25/30 (d) 12/6/30 (d) 3/2/31 | ..... | 247 | 162 | ..... | ..... |  |
| C-1274-Q-14 | Negro Colony, 1.3 miles N. of Talbert Road, S. of Huntington Beach; 1.3 miles W. of Bushard St., 100 feet S. of State Highway, on beach in sand, 900 feet N. of bridge. Use: Not used. Casing: 10 inches. Perforated 150-170. Sampled from surface of standing water. | 13215 | 11 | *x172 | (d) | 6/13/31 (d) 6/18/31 (d) 7/8/31 (d) 7/27/31 (d) 8/22/31 (d) 9/18/31 | 104.5 70 112.0 | 268 | 209 | 0 | 41 | 12 |
| C-1274b-Q-14 | Globe Petroleum Co., Judd Well 1, SE. of Huntington Beach; 4,957 feet S. and 2,994 feet E. of NW corner of Sec. 13, T. 6, S. R. 11 W.; S. B. & M., 100 feet E. of Newland St., 100 feet N. of Banning Ave. Use: Not used. Casing: Old oil casing with naphthalene and lead, 1-inch. Travel 280-540, 604-694; 750-787, 811-829. Sampled from surface of standing water. | 13225A | 4 | *x4,980 | (d) | 6/6/31 (d) 6/23/31 (d) 7/25/31 | ..... | 659 | 2,753 | ..... | ..... |  |
| C-1274c-Q-15 | Test hole, SE. of Huntington Beach, 15 feet NW. of Bushard St., 200 feet SW. of turn in Bushard St., 1,500 feet from State Highway, Total hardness as $CaCO_3$, 1,560 ppm. H=31 ppm. | 13236 | ; | 11 | 778 | 3,4,32 | 4,980 81 | 0 | 18,194 | 5,658 | 0 | 955 |
| C-1275-Q-15 | H. A. De Wolf, E. of Huntington Beach, 1,300 feet E. of Santa Ana River, 30 feet S. of dirt road which is 0.5 miles S. of Atlanta Ave. (road east of river curves to south). Use: Domestic and dairy. Casing: 12 inches. | 13255A | 10 | x68 | 324 | 9,18/31 | 189 0 73 | 56 | 327 | 308 | 151 | 0 |

^a Log in files of Division of Water Resources.^b Water levels in files of Division of Water Resources.^c Includes small equivalent quantity of Carbonate (CO_3^{2-}).^d Sulphate (SO_4^{2-}) determined by turbidity method.^e Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligrams, equivalents and calculated to equivalent quantity of Sodium.^f Analysis by Orange County Flood Control District, Santa Ana, California.^g Analysis by Los Angeles County Flood Control District, Los Angeles, California.^h Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.ⁱ Information from H. M. Bergen, Brea, California.^j Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.^k Analysis by Griffin-Hanson Laboratory, Los Angeles, and recalculated from compounds by H. M. Bergen.^l Analysis by Union Oil Co. of California.^m Analysis by Shell Oil Co. of California.ⁿ Analysis by City of Los Angeles, Biological Laboratory; W. A. Lynch, analyst.

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^3$ at $25^\circ C$) | Boron ppm | Percent sodium | Constituents (parts per million) | | | | | |
|--------------|--|---------------------|-----------------------------|-------------------|------------|--|-----------|----------------|----------------------------------|------------------|---------------|--------------------|---------------|-----|
| | | | | | | | | | $\text{Ca} + \text{Mg}$ | HCO_3^- | Cl^- | SO_4^{2-} | Na^- | |
| C-2408-I-13 | Harriet W. Strong Estate, S. of El Monte; 0.32 miles NW. of U.S.P.R.; 0.31 miles SW. of Walnut Ave. Use: Irrigation. Casing: 14 inches. | 207 | x-307 | (9) | 9/18/24 | ----- | ----- | 15 | 28 | ----- | 23 | 18 | c11 | |
| C-301b-I-13 | City of Whittier, Well 5, NW. of Whittier; 162 feet SW. of Whittier Blvd., 630 feet NW. of Guirado St., Use: Municipal. Case: 26 inches. Perforated 45-70; 135-142; 150-162; 315-330; 344-356; 361-370; 373-380; 585-600; 625-637. | 172 | *x380 | (9) | 4/12/28 | ----- | ----- | 21 | ----- | 18 | 52 | 62 | 11 | |
| C-301d-I-13 | City of Whittier, Well 6, NW. of Whittier; 639 feet NW. of Guirado St., 800 feet SW. of Whittier Blvd., 700 feet SW. of Whittier Blvd., 400 feet W. of San Gabriel River. Use: Municipal. Casing: 20 inches. Perforated 6-541. | 172 | *x541 | (9) | 4/12/28 | ----- | ----- | 22 | 238 | 14 | 48 | 55 | 10 | |
| C-304a-I-13 | City of Whittier, Well 7, NW. of Whittier; 2,000 feet N. of Beverly Blvd., 400 feet W. of San Gabriel River. Use: Municipal. Casing: 18 inches. Perforated 55-100; 136-160; 266-687-694; 716-722. | 187 | *x1,000 | (9) | 12/9/29 | ----- | ----- | 20 | 232 | 20 | b33 | 14 | 31 | |
| C-304t-I-13 | Pico County Water District, Well 1, Pico; 50 feet W. of Church St., 1,000 feet N. of Whittier Blvd. Use: Municipal. Casing: 32 inches. Perforated 40-76; 221-226; 246-248; 339-341; 354-360; 405-413. | 181 | *x435 | (9) | 1/22/30 | ----- | ----- | 19 | 217 | 17 | v33 | 38 | e23 | |
| C-304an-I-13 | City of Whittier, Well 8, NW. of Whittier; 300 feet N. of Strong Ave., extended. 0.09 mile N. of Well C-804a-I-13. Use: Municipal. Casing: 24 inches. | 188 | x302 | (9) | 7/13/31 | ----- | ----- | 18 | 210 | 9 | 60 | 53 | 9 | |
| C-305z-I-12 | S. H. Laughlin, E. of Montebello; 400 feet N. of Beverly Blvd., 100 feet W. of Lexington Road. Use: Domestic. Casing: 2 inches. | 184 | 40 | 1040 | 6/6/32 | 54.6 | 0.17 | 34 | 223 | 36 | 40 | 6 | 54 | 12 |
| C-314f-I-13 | Mrs. Mary Phelan, NW. of Whittier; 1,690 feet S. of Whittier Blvd., 2,400 feet W. of Norwalk Road. Use: Irrigation. Case: 18 inches. Perforated 158-167; 176-251; 330-362; 473-481. | 170 | *x509 | 62 | 6/17/31 | 51.6 | ----- | 23 | 250 | 13 | 38 | 2 | 62 | 15 |
| C-315o-I-13 | Z. Brown, NW. of Whittier; 700 feet W. of Passons Blvd., 125 feet N. of Dunlap Crossing Road. Use: Domestic. Casing: 5 inches. | 171 | x50 | (1) | 4/21/32 | 47.4 | 0.08 | 19 | 232 | 28 | 32 | 34 | 5 | 14 |
| C-316v-J-13 | Joseph Blacker, Los Nietos; 50 feet N. of P.E. Ry., 400 feet W. of Los Nietos Road. Use: Domestic. Casing: 5 inches. L.A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 150 | 100 | (1) | 6/29/31 | ----- | ----- | 17 | 411 | 51 | 429 | 60 | 55 | 23 |
| C-317a-J-12 | A. T. & S. F. Ry. Rivera; 120 feet NW. of Topeka St., 95 feet NE. of A. T. & S. F. Ry.; back of A. T. & S. F. Ry. station. Use: Domestic. Casing: 12 inches. | 155 | x148 | 128 | 7/14/31 | 77.9 | ----- | 19 | 324 | 23 | 129 | 4 | 107 | 22 |
| C-318d-J-13 | Pete G. Martinez, N. of Santa Fe Springs; 95 feet NW. of Santa Fe Springs Road. 2,165 feet N. of Los Nietos Road. Use: Domestic. Casing: 5 inches. L.A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 143 | x81 | (1) | 7/1/31 | ----- | ----- | ----- | 378 | 121 | 341 | 326 | 335 | 105 |
| C-319-J-13 | H. F. Reindis, S. of Whittier; 50 feet S. of Mulberry Ave., 300 feet E. of Laurel Ave. Open casing on N. side of tank house. Use: Not used. Casing: 8 inches. L.A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 150 | x50 | (1) | Oct. 1918 | ----- | ----- | 29 | 33 | 297 | 323 | 18 | 153 | 41 |
| C-319a-K-13 | J. W. Neimier, E. of Santa Fe Springs; 40 feet W. of Victoria Ave., 0.43 mile NE. of Telegraph Road (Los Nietos Road). Use: Irrigation. Perforated 28-48. | 148 | *75 | 231 | 8/13/31 | 178.4 | ----- | 39 | 407 | 211 | 256 | 22 | 144 | 60 |
| C-319b-K-13 | Colima Tract Water Co., Well 1, E. of Colima Ave. 0.45 mile SW. of Mulberry Drive. Use: Irrigation. Casing: 14 inches. Perforated 170-173; 180-184; 225-226; 239-241; 286-290; 298-305; 310-314; 338-342; 344-347; 352-355. | 145 | *x161 | (1) | July 1931 | 185 | 0.42 | 46 | 340 | 124 | 390 | 55 | 149 | 70 |
| C-319c-K-13 | Colima Tract Water Co., Well 6, E. of Santa Fe Springs; 0.13 mile NW. of Gunn Ave., 10 feet NE. of Colima Ave. 0.45 mile SW. of Mulberry Drive. Use: Irrigation. Casing: 14 inches. Perforated 170-173; 180-184; 225-226; 239-241; 286-290; 298-305; 310-314; 338-342; 344-347; 352-355. | 143 | *x379 | (1) | July, 1931 | ----- | ----- | 41 | 344 | 232 | 1,070 | 264 | 120 | 375 |

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA. *Continued*

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Boron ppm | Percent sodium Na x 100 Ca + Mg + Na | Constituents (parts per million) | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|------------------|--|-----------|--|-----------------------------------|-------------------------------------|---------------------------------|------------------------------|----------------|
| | | | | | | | | | Bicarbonate radical (HCO_3^-) | Chloride radical (Cl ⁻) | Sulfate radical (SO_4^{2-}) | Nitrate radical (NO_3^-) | Magnesium (Mg) | Sodium (Na) |
| C-819d-J-13 | Mr. Johnson, S. of Whittier; 90 feet SW. of Lambert Road, 150 feet NW. of Walnut Ave. Use: Irrigation. | 1674 | 183 | x..... | (^a) | 7/17/31 | ..... | ..... | 254 | 163 | ..... | ..... | ..... |
| C-819j-K-13 | Victor Reis, E. of Santa Fe Springs; 0.46 mile SW. of Mulberry Drive, 0.13 mile SE. of Gunn Road, 30 feet SW. of Colma Ave. Use: Irrigation. Casing: 12 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1665G | 152 | x150 | (^a) | 7/ 1/31 | ..... | ..... | 342 | 192 | 185 | ..... | ..... |
| C-819k-K-13 | J. P. Thompson, E. of Santa Fe Springs; 0.32 mile SW. of Mulberry Drive, 40 feet SW. of Mills Ave. Use: Domestic. casing: 10 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1665H | 146 | 108 | (^a) | 7/ 1/31 | ..... | ..... | 324 | 195 | 195 | ..... | ..... |
| C-819x-K-13 | J. P. Thompson (Paul Castro lessee), E. of Santa Fe Springs; 0.45 mile SW. of Mulberry Drive, 80 feet SW. of Mills Ave. Use: Domestic. casing: 16 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1665M | 146 | 450 | (^a) | 7/ 1/31 | ..... | ..... | 349 | 209 | 170 | ..... | ..... |
| C-820j-K-13 | Victor Reis, E. of Santa Fe Springs; 0.12 mile SW. of Mulberry Ave., 75 feet NW. of Mills Ave., 300 feet NE. of Broadway. Use: Irrigation. Casing: 14 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1675A | 153 | ..... | (^a) | 7/ 1/31 | ..... | ..... | 242 | 160 | 153 | ..... | ..... |
| C-821e-J-13 | Colima Tract Water Co., Well 10, E. of Santa Fe Springs; 0.16 mile NW. of Painter Ave., 15 feet N. of Barton Road. Use: Irrigation. gravel 40 58-88 102; 131 134; 535; 545; 582; 547 570; 590-594; 604 624. | 1645H | 157 | *x648 | \|\| | July, 1931 | ..... | ..... | 28 | 247 | 158 | 257 | 23 |
| C-822i-J-13 | R. S. Savery, SW. of Whittier; 100 feet W. of P. E. Ry. 400 feet S. of Center St. Use: Industrial. Casing: 8 inches. Perforated 44-59; 197-206. | 1633 | 154 | *217 | \|\| | 228 | 8/13/31 | 121/ 5 \| . . . | 26 | 400 | 50 | 313 | 18 |
| C-822y-K-13 | Bartibart-Morrow Lease, W. of Santa Fe Springs; 0.25 mile N. of Little Lake Road, 50 feet W. of Norwalk Blvd. (Puent-Mills Road). Use: Industrial. Casing: 6 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1626P | 140 | ..... | (^a) | 7/17/31 | ..... | ..... | 399 | 300 | 288 | ..... | ..... |
| C-824y-K-13 | A. Fraser, N. of Norwalk; 0.12 mile N. of Clark Ave. (Little Lake Road), 40 feet E. of Pioneer Blvd. (Shamrock Road). Use: Domestic. | 1616M | 124 | 200 | \|\| | 1335 | 9/ 8/32 | 242 \| 1-25 | 21 | 314 | 600 | 79 | 0 |
| C-825-J-12 | A. O. Houghton, W. of Santa Fe Springs; 80 feet S. of Anaheim Telegraph Road, 150 feet E. of Orr and Day Road, N. of tank house. Use: Domestic. Casing: 10 inches. | 1615C | 136 | x48 | (^a) | 6/29/31 | ..... | ..... | 269 | 14 | 18 | 251 | 12 |
| C-825r-K-12 | Mr. Hathaway, N. of Norwalk; 100 feet S. of Little Lake Road, 575 feet E. of Day and Orr Road. Use: Irrigation. L. A. C. F. C. D. and D. W. R. analyses are from same sample. | 1616D | 124 | 200 | (^a) | 10/15/30 | ..... | ..... | 244 | 54 | 1 | 63 | 16 |
| C-825y-K-13 | Mrs. K. Carter, N. of Norwalk; 0.12 mile W. of Pioneer Blvd. (Shamrock Road), 0.15 mile N. of Little Lake Road. Use: Irrigation. Casing: 12 inches. Lab. No. 1344 was analyzed at same time as No. 1334 and was kept in glass container stoppered with cork. | 1616L | 127 | 212 | \|\| | 1344 | 3/15/32 | 102 \| 0.49 | 24 | 281 | 14 | 51 | 2 |
| C-826b-J-12 | Walnut Irrigation District, Well 1. Rivera; 25 feet E. of Passons Rd. 0.5 mile N. of Telegraph Road, in brick pump house. Use: Irrigation. Casing: 18 inches. Perforated 233 278; 357-365; 383-430. | 1603I | 152 | *455 | \|\| | 7/14/31 | 42.4 | ..... | 27 | 217 | 13 | 35 | 2 |
| C-826f-J-12 | Downey County Water District, Well 2. Downey; 100 feet NW. of La Reina St., 490 feet NE. of 7th St. Use: Municipal. casing: 16 inches. | 1575B | 124 | x574 | \|\| | 7/15/31 | 47.9 | ..... | 20 | 250 | 13 | 28 | 9 |
| C-829a-J-11 | Rio Hondo Country Club, NW. of Downey; 200 feet NW. of Old River School Road, 0.5 mile SW. of Clara St. (Hunt's Crossing Road). Use: Irrigation and domestic. Casing: 14 inches. Perforated 356-401. | 1554B | 118 | *449 | \|\| | 7/15/31 | 46.9 | ..... | 21 | 253 | 13 | 22 | 2 |
| (S)20j-J-11 | L. W. Jordan, NW. of Downey; 125 feet N. of Clara St., 2,200 feet E. of Rio Hondo, 0.17 mile E. of Old River School Road. Use: Domestic. Casing: 8 inches. | 1564 | 127 | x90 | \|\| | 7/ 7/32 | 71.4 | 0.21 | 32 | 336 | 28 | 61 | 0 |

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

| Well number | Location and description | Location number | Eleva- tion of ground in feet | Total depth of well in feet | Labor- atory number | Date | Specific electri- cal conduc- tance ($K \times 10^8$ at $25^\circ C$) | Per cent boron ppm $Na \times 100$ $Ca + Mg$ $+ Na$ | Constituents (parts per million) | | | | | | | |
|-----------------------------------|--|--------------------|--|--------------------------------------|---------------------------|----------|---|---|----------------------------------|---|---|-----------------------------------|---------------------------------------|------------------------------------|-----|----|
| | | | | | | | | | Boron ppm | Bor- ate Na $\times 100$ $Ca + Mg$ $+ Na$ | Bor- ate $Na \times 100$ $Ca + Mg$ $+ Na$ | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | | |
| C-845m-K-13 | Earl Myers, S. of Santa Fe Springs; 300 feet S. of Lakeland Road, 5.0 miles E. of A. T. & S. P. Ry. Use: Domestic. | 1646D | 150 | 1340 | 0/ 8/32 | 68.4 | 0.24 | 72 | 305 | 66 | 10 | 0 | 23 | 10 | 115 | |
| C-852a-K-13 | Mr. Pendleton, West Pendleton Well, N. of Norwalk; 110 feet S. of Leffingwell Road, 0.08 mile E. of Norwalk Blvd. Use: Irrigation. Casings: 12 inches. | 1625F | 102 | *270 | (x) | 3/12/32 | - | 21 | 249 | 23 | 37 | - | 66 | 12 | 257 | |
| C-852d-K-13 | Norwalk State Hospital, Dairy Well, N. of Norwalk; 100 feet S. of Imperial Highway, extended 275 feet E. of Butler Road. Use: Domestic and stock. Casings: 16 inches. Perforated 140-150. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1638 | 111 | *249 | (x) | 10/15/30 | - | 44 | 233 | 52 | 3 | 44 | 10 | 55 | | |
| C-852e-K-13 | Norwalk State Hospital, Well 5, "Garden Well," N. of Norwalk; 240 feet S. of Imperial Highway, 300 feet E. of Norwalk Blvd. Use: Irrigation. Casings: 16 inches. Tr. and D. W. R. analyses on 11/9/31 are from same sample. | 1628A | 106 | *215 | (x) | 10/15/30 | - | 23 | 354 | 53 | 107 | - | 106 | 25 | 52 | |
| C-852f-K-13 | Los Angeles County Water District, Well 2, Norwalk; 150 feet SE. of Norwalk Blvd, 400 feet SW. of S. P. R. R., 20 feet W. and 20 feet N. of Well 1, on N. side of alley in center of block. Use: Municipal. Casings: 12 inches. | 1629A | 96 | 762 | \|\| | 7/15/31 | 39.2 | - | 26 | 371 | 55 | - | - | - | - | |
| C-852g-K-13 | E. G. Paddison (formerly Johnson), N. of Norwalk; 1,290 feet W. of Norwalk Blvd., 630 feet N. of Imperial Highway. Use: Irrigation and domestic. Casings: 12 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1628E | 108 | 330 | (x) | 10/15/30 | - | 342 | 57 | 57 | - | - | - | - | 30 | |
| C-852h-K-13 | Owner unknown, Norwalk; 162 feet NE. of S. P. R. R., 87 feet road into Norwalk. Clearwater Road, 200 feet E. of last bend in road into Norwalk. Use: Domestic. Casings: 5 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/6/31 are from same sample. | 1639A | 94 | x..... | (x) | 7/17/31 | - | 415 | 67 | 106 | 106 | 7 | 105 | 26 | 60 | |
| C-852m-K-13 | Carl Doty, N. of Norwalk; 1,500 feet S. of Lakeland Road, 259 feet E. of Norwalk Blvd. Use: Domestic, but not drinking. Casings: 8 inches. | 1627A | 121 | 155 | \|\| | 9/10/32 | 335 | 1.73 | 457 | 360 | 59 | 233 | 1 | 11 | 25 | |
| C-852n-K-13 | Mt. Venetie, N.E. of Norwalk; 100 feet SE. of Leffingwell Road, 30 feet E. of Butler Road from north, extended at offset on Leffin well. Road. Use: Irrigation and domestic. | 1638A | 104 | | | 1339 | 0/ 8/32 | 60.6 | 0.15 | 262 | 232 | 28 | 38 | Tr. | 60 | 15 |
| C-852o-K-13 | Norwalk State Hospital, Well 4, N. of Norwalk; 525 feet E. of Norwalk Blvd., 50 feet N. of Leffingwell Road. Use: Domestic. Casings: 16 inches. | 1625D | 125 | 297 | \|\| | 8/24/32 | 58.6 | 0.12 | 26 | 256 | 30 | 55 | 2 | 70 | 16 | 39 |
| C-852q-K-13 | S. Murato, East Pendleton Well, N.E. of Norwalk; 550 feet W. of Butler Road, 1,100 feet S. of Imperial Highway, 30 feet S. of Leffin well. Road. Use: Irrigation. Casings: 12 inches. | 1638C | 100 | *225 | (x) | 3/12/31 | - | 25 | 265 | 43 | 67 | - | 84 | 13 | 41 | |
| (x) 11/9/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/9/31 are from same sample. | | | | | | | | | | | | | | | | |
| C-853-K-13 | Norwalk State Hospital, Well 3, N. of Norwalk; 0.37 mile E. of Lakeland Road, 0.64 mile N. of Imperial Highway, 0.27 mile W. of Butler Road. Use: Irrigation. Casings: 16 inches. Gravel-packed well. L. A. C. F. C. D. and D. W. R. analyses on 11/6/31 are from same sample. | 1637B | 120 | *220 | (x) | 10/15/30 | - | 25 | 332 | 216 | 105 | - | 154 | 40 | 84 | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |
| (x) 11/6/31 are from same sample. | | | | | | | | | | | | | | | | |

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^6$ at 25°C) | Boron pyrm | Per cent sodium | Constituents (parts per million) | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|---|---|--|--|---|---|--|-------------------------------------|
| | | | | | | | | | | $\text{Na} \times 100$ | $\text{Ca} + \text{Mg}$ | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium ($\text{Mg}$) |
| C-853f-K-13 | Norwalk State Hospital, Well 6; Spenger Well, N.E. of Norwalk; 1400 feet N. of Imperial Highway, 80 feet W. of Butter Road. Use: irrigation. Casing: 18 inches. Gravel-packed well. L. A. C., F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1637E | 125 | *160 | (*) | 10/15/30 3/12/31 7/17/31 11/9/31 | 290 303 293 284 | 103 98 110 112 | 44 | 83 | 25 | 58 | 31 |
| C-853j-K-13 | J. E. Hathaway, N. of Norwalk; 700 feet E. of Pioneer Blvd. (Shamrock Rond.) 100 feet N. of Little Lake School. Use: Irrigation. Casing: 8 inches. Perforated 352-364, plastered at 400 feet. | 1626 | 132 | *537 | \|\| | 1336 | 9/ 8/32 (*) | 122 | 0.32 | 314 | 298 | 0 | 27 |
| C-853L-K-13 | J. E. Hathaway, N. of Norwalk; 35 feet E. of end of R.R. spur, 20 feet S. of power house on Norwalk State Hospital grounds. Use: Domestic and irrigation. Casing: 12 inches. Perforated 655-672, 730, 900, 980, 1005, 1025. L. A. C., F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. L. A. Testing Lab. analysis on 10/15/30 was sampled at 100-foot depth, 10/17/30 at 200-foot depth, 10/20/30 at 357-foot depth, 10/22/30 at 300-foot depth, 10/23/30 at 387-foot depth, 10/28/30 at 534- 615- and 675-foot depths. | 1626B | 130 | 700 | (*) | 7/16/31 7/17/31 | ..... | ..... | ..... | 354 359 | 299 | 298 | 76 |
| C-853u-K-13 | Norwalk State Hospital, Well 1-A. N. of Norwalk; 35 feet E. of end of R.R. spur, 20 feet S. of power house on Norwalk State Hospital grounds. Use: Domestic and irrigation. Casing: 12 inches. Perforated 655-672, 730, 900, 980, 1005, 1025. L. A. C., F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. L. A. Testing Lab. analysis on 10/15/30 was sampled at 100-foot depth, 10/17/30 at 200-foot depth, 10/20/30 at 357-foot depth, 10/22/30 at 300-foot depth, 10/23/30 at 387-foot depth, 10/28/30 at 534- 615- and 675-foot depths. | 1637D | 125 | *1025 | (*) | 10/15/30 10/17/30 10/20/30 10/22/30 10/23/30 10/28/30 10/28/30 10/28/30 3/12/31 7/16/31 11/9/31 | 29 30 37 31 43 30 31 32 73 | 309 353 342 336 430 306 311 201 80 | 137 122 243 233 286 171 180 104 91 | 114 107 105 98 105 101 100 104 91 | 110 99 131 137 118 110 112 115 31 | | |
| C-853w-K-13 | Little Lake School District, SW of Santa Fe Springs; 100 feet S. of Little Lake Road in school yard, 0.27 mile W. of Norwalk Blvd. Use: Irrigation, no domestic use, some trees and shrubbery dying. Casing: 6 inches. | 1626O | 130 | 96 | (*) | 6/29/31 (*) | 209 | 0.47 | 18 | 320 | 77 | 33 | 16 |
| C-853x-K-13 | Norwalk State Hospital, Well 2, N. of Norwalk; 75 feet W. and 100 feet N. of power house on hospital grounds, 0.25 mile E. of Norwalk Blvd. 0.75 mile N. of Imperial Highway. Use: Irrigation and Domestic. Casing: 10 inches. Plastered to 240 feet. L. A. C., F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1637C | 125 | 1,100 | (*) | 10/15/30 3/12/31 11/ 9/31 | ..... | 0.16 | 34 | 241 | 75 | 33 | 57 |
| C-853z-K-13 | Oil Well Supply Co., N. of Norwalk; 250 feet W. of Norwalk Blvd., 300 feet S. of Lakeland Road. Use: Domestic, but not drinking. Casing: 12 inches. | 1626S | 129 | 226 | 1343 | 9/10/32 | 104 | 0.41 | 19 | 342 | 83 | 0 | 54 |
| C-854m-K-13 | Frink B. Norswing (formerly Mr. O'Connell), N. of Norwalk; 150 feet W. of Pioneer Blvd. (Shamrock Road), 2,000 feet S. of Lakeland Rond. Use: Domestic and stock. Casing: 14 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. | 1617E | - 116 | x500 | (*) | 10/15/30 6/20/31 11/ 9/31 | ..... | ..... | ..... | 270 261 270 281 | 57 98 140 53 | 30 | 53 |
| C-857b-L-13 | Louis Rivera, Carmenita; 100 feet E. of Carmenita Ave., 100 feet N. of intersection of S. P. R. and Carmenita Ave. Use: Irrigation and domestic. Casing: 12 inches. Gravel 1-6. | 1050B | 76 | *500 | 23 | 6/ 4/31 | 47 0 | ..... | 40 | 214 | 34 | 19 | 10 |
| C-858c-L-13 | Ralph Nottingham, N. of Artesia; 0.25 mile E. of Pioneer Blvd. 60 feet S. of Center St. Use: Irrigation and domestic. Casing: 12 inches. Gravel 11-13. | 1021 | 70 | *300 | 20 | 6/ 4/31 | 60 5 | ..... | 23 | 275 | 25 | 61 | 77 |
| C-858e-L-13 | Test Hole, N. of Artesia; on south line of Center St., 0.1 mile E. of Center St. and domestic. Casing: 12 inches. Gravel 1-6. | 1021B | 71 | 10 | 739 | 2/12/32 | 209 | 0.47 | 61 | 692 | 222 | 282 | 41 |

^a 1 mil. = 183.4 m. = 389.40 ft.
^b 1 mil. = 1.61 km. = 0.99 miles.

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

| Well number | Location in Lodi plateau | Elevation of ground | Total dry weight of well in feet | Laboratory number | Date | Constituent parts per million) | | | | | | | | |
|-------------|---|---------------------|----------------------------------|-------------------|--------------------------------------|--|---|----------------------------------|--|--|-----------------------------|-------------------|----------------|-----|
| | | | | | | Sodicity index of electrical conductivity (K x 10 ³) at 25°C) | Boron ppm | Na x 100 Ca + Na | Bicarbonate (K x 10 ³) Ca + Mg at 25°C) | Sulfate radicle (SO ₄) | Chloride radicle (Cl) | Magnesium (Mg) | Sodium (Na) | |
| -K-12 | Joe Lewis, S., of Downey; 315 feet W. of Woodruff Ave., 550 feet N. of Foster Road. Use: Irrigation. Casing: 12 inches. | 94 | 163 | 136 | 7/15/31 | 64.0 | ..... | 28 | 320 | 25 | 51 | 0 | 80 | |
| -L-12 | Jim Blythe, Well No. 1, NE. of Bellflower; 100 feet S. of Washington Blvd., extended east from turn in street, 600 feet E. of Woodall Ave. toward L-12. Irr. thru casing. 12 inches. Perforated 102' 10" to 10' 12" 140'. Perforated 345' 345', 165' 165', 546' 541', 561' 572'. | 82 | *147 | 73 | 6/18/31 | 62.0 | ..... | 22 | 210 | 34 | 51 | 0 | 81 | |
| -K-12 | Downey County Water District, Well 1, Downey; 100 feet NE. of Davis St., 125 feet NW. of Dolan St. Use: Municipal. Casing: 10 inches. Perforated 345' 345', 165' 165', 546' 541', 561' 572'. | 115 | *8698 | 130 | 7/15/31 | 45.8 | ..... | 23 | 247 | 13 | 25 | 3 | 61 | |
| -K-11 | Los Angeles County Farm, Well 7, SW. of Downey; 735 feet SW. of Imperial Highway, 70 feet NW. of Rives Ave. Use: Irrigation. Casing: 12 inches. | 100 | 530 | 139 | 7/15/31 | 53.4 | ..... | 21 | 277 | 18 | 28 | 1 | 69 | |
| -K-11 | Los Angeles County Farm, Well 4, SW. of Downey; 1,740 feet SW. of Imperial Highway, 1,000 feet NW. of Rives Ave., extended to rear of Leiter long oil water tank tower. Use: Industrial. Casing: 12 inches. Perforated near 500', 503' 617', 1,325', 1,429'. | 93 | *1493 | 138 | 7/15/31 | 54.3 | ..... | 38 | 217 | 28 | 65 | 0 | 56 | |
| -K-11 | Ruth Bros. Packing Co., B. of Southgate; 100 feet W. of U.P. R.R., 0.25 mile N. of Imperial Highway (Norton Ave.). E. of entrance of Rio Hondo into Los Angeles River, in iron pump house at dairy. | 96 | ..... | 1660 | 1/20/33 | 42.3 | 0.10 | 27 | 238 | 12 | 14 | Tr. | 47 | |
| -K-11 | J. A. Quill, SW. of Downey; 300 feet S. of Imperial Highway, 250 feet E. of Downey Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 400' 423', 410' 471', 451'. | 105 | *501 | 140 | 7/15/31 | 47.6 | ..... | 21 | 253 | 14 | 29 | 4 | 62 | |
| -K-11 | Mr. Johnson, E. of Compton; 25 feet S. of Washington St., 200 feet E. of Los Angeles River Bridge. Use: Domestic. Casing: 8 inches. | 910 | 67 | *350 | (1) 855 | 3/3.32 3/25.32 | 50.4 0.16 | 35 | 225 224 | 28 18 | 70 | 0 | 50 | |
| -K-11 | George Faulkner, E. of Compton; 3754 feet E. of Atlantic Ave., 200 feet S. of Washington Blvd., 70 feet W. of C-877-1-11, in back of house. Use: Municipal. Casing: 4 inches. Perforated 95' 110'. | 910D | 71 | 115 | 76 | 6/18/31 | 48.1 | | 32 | 241 | 10 | 34 | 0 | 54 |
| -L-11 | Test hole, E. of Compton; at SW. corner of Orange St. and Center St. 1'-6" N.E. | 921E | 67 | 10 | 736 | 2/11/32 | 98.5 | 0.16 | 18 | 613 | 21 | 61 | 0 | 130 |
| -L-11 | Montana Land Co., Well 11, S. of Clearwater; 100 feet W. of Ceritos Ave., 200 feet S. of Artesia St., 30 feet S. of N. property line. Use: Irrigation. Casing: 12 inches. Perforated 925' 930'. | 953A | 58 | *1,061 | 72 | 6/18/31 | 40.5 | | 31 | 223 | 9 | 19 | Tr. | 49 |
| -L-11 | City of Long Beach, North Long Beach Well 4, Funderbark Well, S. of Clearwater; 500 feet E. of Paragon Blvd. (Ocean Ave.), 130 feet S. of Bush St., 900 feet S. of Artesia Ave. Use: Municipal. | 942C | 60 | 290 | (1) 86 (1) 10 (1) 11 (1) 11 | 6/19.31 7/5.32 8/3.32 9/13.32 10/1.32 11/1.32 | 40.0 | 24 25 24 31 40 47 | 232 | 9 | 15 | Tr. | 53 | |
| -L-11 | A. Nige, E. of Clearwater; 170 feet S. of Washington St., 670 feet E. of Ceritos Ave., 250 feet E. of C-880b-1-11. Use: Irrigation. Casing: 5 inches. | 950A | 80 | 172 | 77 | 6/18/31 | 44.6 | | 24 | 223 | 13 | 30 | 0 | 56 |
| -L-11 | Test Hole, Bellflower; at SW. corner of Clark Ave. and Center St. Casing: None. | 961A | 71 | 14 | 740 | 2/12/32 | 46.3 | 0.15 | 21 | 250 | 13 | 23 | 0 | 57 |
| -L-11 | Montana Land Co., Well 8, S. of Bellflower; 2300 feet S. of Artesia Ave., 0.5 mile E. of Ceritos Ave., 50 feet W. of Clark Ave. Use: Irrigation. Casing: 26 inches. Perforated 77' 740', 532' 541'. | 963 | 62 | *882 | 68 | 6/18/31 | 42.2 | | 24 | 232 | 13 | 15 | 0 | 51 |
| -L-12 | Mrs. Schaffer, N. of Artesia; 0.15 miles S. of Apple St., 180 feet E. of Grabley Road. Use: Irrigation and domestic. Casing: 12 inches. Perforated 102' 122'. | 1012 | 61 | *131 | 19 | 6/ 4/31 | 52.1 | | 25 | 262 | 18 | 42 | 0 | 67 |
| -L-12 | J. W. Smith, Artesia; 280 feet N. of Orange St., 470 feet E. of Grabley Rd. Use: Irrigation and domestic. Casing: 12 inches. Perforated 167' 171', 147' 203', 203' 224'. | 1013 | 68 | *239 | * | 6/ 4/31 | 42.1 | | 24 | 232 | 7 | 22 | 0 | 54 |

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA--Continued

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($\mu\text{mho}/(K \cdot 10^3)$ at 25°C) | Constituents (parts per million) | | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|--|--|--|--|--|--|--|--|---|--|-----|-----|----|
| | | | | | | | | Boron ppm | Per cent sodium | Nitrate radicle (NO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Bicarbonate ($\text{Ca}^+ \text{Na}^+ + \text{Na}^+$) | | | | |
| C-909-N-12 | City of Long Beach, Commission Well 2, NE. of Signal Hill; 79 feet E. of Palo Verde Ave., 272 feet S. of Carson St., (Bixby Station Road). Use: Municipal. Casing: 26 inches. Perforated 300-316; 364-394; 618-628. Samples from depths of 334, 626, and 830 $\frac{1}{2}$ (17/31), and 87/25 (31) are from depths of 334, 626, and 830 feet, respectively, while drilling. Later samples are from operating well. | 996 | 37 | 1,054 | (1) (2) (3) (4) (5) (6) (7) (8) | 8/10/31 8/17/31 8/25/31 7/5/32 8/3/32 9/13/32 10/1/32 11/1/32 | ..... ..... ..... ..... ..... ..... ..... ..... | 34 31 40 32 46 32 31 30 | 149 204 203 209 215 200 205 210 | 13 18 11 10 10 11 11 11 | 51 44 37 45 50 17 45 47 | 5 5 5 6 5 5 6 6 | 31 36 37 45 26 29 46 47 | | | | |
| C-909-N-13 | J. P. Labordelette, S. of Artesia; 0.27 mile W. of Los Alamitos Blvd.; 30 feet S. of Spring St.; 50 feet W. of Los Angeles County Line at Spring St. Use: Domestic. | 1029 | 22 | x332 | (1) (2) (3) (4) (5) (6) | 4/10/31 6/19/31 7/28/31 | ..... ..... ..... ..... ..... ..... | 203 222 201 | 14 14 14 | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... |  |  |  |
| C-913b-O-12 | Birby Ranch, E. of Long Beach; 10 feet S. of 7th St. on E. side of Palo Verde St., extended; 0.65 mile E. of Hathaway Ave. Use: Irrigation. Casing: 14 inches. | 492 | 24 | x4020 | (1) (2) (3) (4) | 11/26/30 6/23/31 11/11/31 | ..... ..... ..... ..... | 322 328 18 | 17 18 16 | ..... ..... ..... | ..... ..... ..... | ..... ..... ..... | ..... ..... ..... | ..... ..... ..... |  |  |  |
| C-913r-N-12 | Test Hole, E. of Long Beach; 50 feet N. of Anaheim St., 5 feet W. of Palo Verde Ave. Casing: None. | 492C | 65 | 10 | 772 | 3/ 3/32 | 440 | 1,44 | 69 | 604 | 967 | 473 | 0 | 202 | 52 | 73b | |
| C-914b-N-12 | Test Hole, E. of Long Beach; 0.45 mile N. of Anaheim St., 5,000 feet W. of Palo Verde Ave., back of ranch house. Use: Domestic. Casing: 12 inches. | 471 | 36 | x1,500 | 47 | 3 25/32 | 32 2 | 0 12 | 83 | 162 | 16 | 12 | 0 | 0 | 0 | 68 | |
| C-916e-N-11 | City of Long Beach, Citizens Well 4, NE. of Signal Hill; 40 feet S. of Spring St., 1,680 feet E. of Newport Ave. Use: Municipal. Casing: 12 inches. Perforated 800-860. | 955B | 29 | 1,155 | (p) | 10/19/21 | ..... | 89 | 207 | 17 | 2 | Tr. | 6 | 2 | 682 | | |
| C-916h-N-11 | Test Hole, E. of Signal Hill; 100 feet E. of Cerritos Ave., 0.5 mile S. of Spring St. Casing: None. | 959E | 25 | 15 | 773 | 3/ 7/32 | 223 | 0.77 | 90 | 1,165 | 144 | 128 | 0 | 24 | 15 | 555 | |
| C-916i-N-12 | Test Hole, NE. of Signal Hill; NW. corner of Spring St. and Somerset Ave. Casing: None. | 978 | 24 | 11 | 769 | 3/ 2/32 | 51.3 | 0.17 | 45 | 235 | 41 | 30 | 0 | 40 | 12 | 57 | |
| C-926a-M-11 | Montana Land Co., Well 19, N. of Signal Hill; 0.26 mile E. of Cherry Ave., 0.35 mile N. of Bixby Station Road, 30 feet S. of private road to Cerritos Gun Club. Use: Irrigation. Casing: 12 inches. Perforated 778-790; 852-874. | 936E | 65 | 981 | 1151 | 7/ 7/32 | 37.7 | 0.19 | 84 | 195 | 27 | 0 | 0 | 0 | 10 | 2 | 78 |
| C-929j-M-10 | Test Hole, N. of Long Beach; SW. corner of South St. and Dairy Ave., 0.4 mile W. of Atlantic Blvd. Casing: None. | 903 | 50 | 15 | 745 | 2/15/32 | 62.6 | 0.17 | 38 | 284 | 25 | 63 | 0 | 63 | 16 | 63 | |
| C-930c-L-11 | Carson Estate, N. of Long Beach; 75 feet S. of Artesia St., 300 feet W. of Atlantic Blvd. Use: Domestic and irrigation. | 912 | 57 | 350 | 856 | 3/25/32 | 54.8 | 0.14 | 36 | 223 | 25 | 69 | 0 | 59 | 11 | 49 | |
| C-932a-L-11 | City of Long Beach, North Long Beach Well 1, N. of Long Beach; 185 feet E. of Orantra Ave., 2,400 feet S. of Artesia Ave., S. of Toppy St. Use: Municipal. Casing: 16 inches. Perforated 314-324; 372-413; 790-820; 852-870; 906-980. | 923 | 55 | x1,000 | 83 | 6/19/31 | 47.3 | ..... | 47 | 192 | 30 | 42 | 0 | 39 | 9 | 55 | |
| C-934b-M-10 | City of Long Beach, North Long Beach Well 3, N. of Long Beach; 95 feet N. of Market St., 90 feet W. of Dairy Ave. Use: Municipal. Casing: 16 inches. Perforated 382-399. | 904 | 48 | x467 | 85 | 6/19/31 | 46.8 | ..... | 63 | 171 | 23 | 59 | Tr. | 28 | 6 | 74 | |
| C-936c-M-11 | City of Long Beach, Development Well 2, N. of Signal Hill; 710 feet S. of Wardlow St., 1,395 feet E. of Cherry Ave. In Municipal Airport. Use: Municipal. Casing: 26 inches. Perforated 153-190; 286-300; 315-330; 389-602. | 935B | 51 | *752 | (1) (2) (3) (4) (5) (6) | 6/19/31 7/5/32 8/3/32 9/13/32 10/1/32 11/1/32 | 33.3 | 55 54 54 54 61 66 | 171 168 170 173 154 163 | 7 16 14 17 14 25 | 15 16 17 13 14 25 | 1 1 1 1 1 28 | 1 27 27 27 27 28 | 4 42 43 43 43 69 | | | |
| C-936f-M-11 | City of Long Beach, Development Well 6, N. of Signal Hill; 90 feet S. of Wardlow St., 166 feet E. of Walnut Ave. Use: Municipal. Casing: 26 inches. Perforated 287-305; 540-615. | 928G | 66 | *x915 | 97 | 6/19/31 | 34 | ..... | 69 | 168 | 14 | 4 | 1 | 20 | 3 | 62 | |
| | | | | | (1) (2) (3) (4) (5) (6) | 8/3/32 9/13/32 10/1/32 11/1/32 | ..... ..... ..... ..... | 86 86 86 86 | 194 199 197 196 | 27 25 197 24 | 1 1 1 1 | 10 10 10 10 | 1 1 1 1 | 48 42 43 43 43 69 | | | |

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity (K _X 10 ⁻¹⁰ at 25°C) | Constituents (parts per million) | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|----------|---|----------------------------------|-------------|-----------------------------|--|---|---------------------------|
| | | | | | | | | Boron (Bm) | Barium (Ba) | Chloride (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Sodium (Na ⁺) |
| C-03bg-M-11 | City of Long Beach, Development Well 7, N. of Signal Hill; 90 feet S. of Wardlow St.; 235 feet E. of Cherry Ave., Use: Municipal. Casing: 26 inches. Perforated 305-570. | 938C | 59 | *x650 | 98 | 6/19/31 | 37.1 | 86 | 195 | 21 | 10 | 1 | 83 |
| C-036i-N-11 | City of Long Beach, Development Well 1, N. of Signal Hill; 90 feet S. of Wardlow St.; 305 feet E. of Cherry Ave., in Municipal Airport. Use: Not used (formerly municipal). Casing: 12 inches. Gravel 265-357; 877-877; 954-1017. | 938 | 50 | *1.017 | (p) | 10/19/21 | 7 | 86 | 181 | 28 | 8 | 1 | 76 |
| C-036k-M-11 | City of Long Beach, Development Well 4, N. of Signal Hill; 80 feet S. of Wardlow St.; 2,500 feet E. of Cherry Ave., in Municipal Airport. Use: Municipal. Casing: 26 inches. Perforated 345-357; 420-500; 707-720. | 948 | 46 | *1.016 | (p) | 7/8/25 | 7/5/32 | 83 | 158 | 30 | Tr. 1 | 1 | 75 |
| C-036l-N-11 | City of Long Beach, Development Well 5, N. of Signal Hill; 1,267 feet S. of Wardlow St.; 2,500 feet E. of Cherry Ave., in Municipal Airport. Use: Municipal. Casing: 26 inches. Perforated 400-500; 602-740; 942-922. | 948A | 47 | *1.004 | (p) | 6/19/31 | 33.1 | 81 | 165 | 21 | 1 | 1 | 77 |
| C-036m-M-11 | City of Long Beach, Development Well 8, N. of Signal Hill; 90 feet S. of Wardlow St.; 467 feet E. of Cherry Ave., Use: Municipal. Casing: 26 inches. Perforated 375-550. | 938E | 49 | *x662 | (p) | 7/8/32 | 7/5/32 | 88 | 179 | 28 | 2 | 8 | 76 |
| C-037a-N-11 | City of Long Beach, Citizens Well 1, NE. of Signal Hill; 425 feet S. of Spring St.; 320 feet E. of Newport Ave., Use: Municipal. Casing: 12 inches. | 959 | 33 | *x420 | (p) | 10/19/21 | 32.3 | 52 | 164 | 12 | 13 | 1 | 72 |
| C-037e-N-11 | City of Long Beach, Citizens Well 5, NE. of Signal Hill; 1,050 feet S. of Spring St.; 370 feet E. of Newport Ave., Use: Municipal. Casing: 26 inches. Perforated 208-224; 300-330; 340-350; 368-408; 420-610. | 959A | 38 | *x672 | (p) | 6/19/31 | 31.9 | 60 | 165 | 14 | 10 | 0 | 6 |
| C-037f-N-11 | City of Long Beach, Citizens Well 6, NE. of Signal Hill; 520 feet S. of Spring St.; 1,010 feet E. of Newport Ave., Use: Municipal. Casing: 26 inches. Perforated 407-514; 500-600; 755-765. 952-962. | 959B | 33 | *x1.422 | (p) | 8/3/32 | 7/5/32 | 80 | 147 | 27 | 3 | 11 | 52 |
| C-037g-N-11 | City of Long Beach, Citizens Well 7, NE. of Signal Hill; 40 feet S. of Spring St.; 80 feet E. of Newport Ave., Use: Municipal. Casing: 26 inches. Perforated 725-776; 874-885; 912-934; 952-962. | 948C | 36 | *1.105 | (p) | 6/19/31 | 39.0 | 79 | 149 | 25 | 13 | 1 | 69 |
| C-038b-N-11 | City of Long Beach, Alamitos Well 2, E. of Signal Hill; 1,265 feet E. of Ceritos Ave., 53 feet N. of Stearns St., in reservoir 20 feet W. of Alamitos Well 1. Use: Municipal. Casing: 12 inches. Gravel 137-190. | 460L | 23 | *x273 | (p) | 10/19/21 | 35.8 | 77 | 158 | 12 | 22 | 1 | 67 |
| C-038d-N-11 | City of Long Beach, Alamitos Well 6, E. of Signal Hill; 1,940 feet E. of Ceritos Ave., 600 feet N. of Stearns St., Use: Municipal. Casing: 12 inches. Gravel 350-429; 400-450; 553-610. 825-850; 880-937. | 460G | 22 | *949 | 91 | 6/19/31 | 36.9 | 84 | 195 | 14 | 11 | 1 | 68 |
| C-038f-N-11 | City of Long Beach, Alamitos Well 8, E. of Signal Hill; 1,345 feet E. of Ceritos Ave., 655 feet N. of Stearns St., Use: Municipal. Casing: 26 inches. Perforated 804-915. 1046-1148. | 460C | 24 | *x0S2 | 92 | 6/19/31 | 39.7 | 89 | 225 | 16 | 5 | Tr. 1 | 2 |
| C-038g-N-11 | City of Long Beach, Alamitos Well 11, E. of Signal Hill; 1,640 feet E. of Ceritos Ave., 1,230 feet N. of Stearns St., Use: Municipal. Casing: 26 inches. Perforated 768-774; 804-916. | 460A | 23 | *x1.184 | 93 | 6/19/31 | 40.3 | 87 | 226 | 16 | 4 | Tr. 1 | 3 |
| C-038h-N-11 | City of Long Beach, Alamitos Well 9, E. of Signal Hill; 1,380 feet E. of Ceritos Ave., 655 feet N. of Stearns St., Use: Municipal. Casing: 26 inches. Perforated 804-915. | 460F | 23 | *x500 | 94 | 6/19/31 | 33.6 | 82 | 207 | 19 | 2 | 9. Tr. | 10 |
| C-038i-N-11 | City of Long Beach, Alamitos Well 11, E. of Signal Hill; 1,640 feet E. of Ceritos Ave., 537 feet N. of Stearns St., Use: Municipal. Casing: 26 inches. Perforated 170-190; 444-468; 480-494. | 460F | 23 | *x500 | (p) | 7/5/32 | 8/3/32 | 84 | 166 | 24 | 4 | 10 | 68 |
| | | | | | | | | | 151 | 21 | 7 | 9 | 1 |
| | | | | | | | | | 85 | 166 | 12 | 14 | 60 |

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA Continued

| Well number | Location and description | Location number | Eleva- tion of ground | Total depth of well in feet | Labora- tory number | Date | Specific elec- trical conduc- tance ($K \times 10^{-6}$ at 25°C) | Boron ppm | Per cent sodium Na x 100 (Ca + Mg Ca + Na) | Constituents (parts per million) | | | | | |
|-------------|--|-----------------|-----------------------------|--------------------------------------|---------------------------|-----------|---|--------------|---|--|--|----------------------|-------------------------|----------------|------|
| | | | | | | | | | | Sul- phate radicle (SO ₄) | Nitrate radicle (NO ₃) | Cal- cium (Ca) | Magni- esium (Mg) | Sodium (Na) | |
| C-038j-N-11 | City of Long Beach, Alamitos Well 12, E. of Signal Hill; 1,500 feet E. of Terrios Ave., 360 feet N. of Stearns St.; Use: Municipal. Casing: 20 inches. Perforated 162-180; 197-210; 324-330. | 460E | 23 | *500 | (0) | 7/ 5/32 | ..... | ..... | 84 | 156 | 24 | 10 | 1 | 64 | |
| C-040e-N-12 | City of Long Beach, Wise Ranch Well 1, NE. of Long Beach; 80 feet S. of Spring St., 711 feet E. of Stedehauer Road. Use: Municipal. Casing: 26 inches. Perforated 330-410; 588-600; 637-651; 874-938; 953-980. Samples on 9/1/31 and 5/18/31 are from depths of 428, 618, and 980 feet, respectively, while drilling. Later samples are from operating well. | 1009D | 22 | *1,086 | (0) | 4/17/31 | ..... | 42 | 240 | 18 | 43 | 52 | 7 | 54 | |
| C-040f-N-12 | Test Hole, NE. of Long Beach; 100 feet N. of Spring St., 300 feet W. of west levee of San Gabriel River. Casing: None. | 1009E | 24 | 11 | 771 | 3/ 2/32 | 236 | 0.41 | 94 | 572 | 293 | 347 | 0 | 10 | |
| C-040m-N-12 | City of Long Beach, Wise Ranch Well 2, NE. of Long Beach; 1,120 feet S. of Spring St., 710 feet E. of Stedehauer Road. Use: Municipal. Casing: 26 inches. Perforated 320-344; 380-400; 570-595; 930-940; 930-952. | 1009F | 21 | *1,041 | (0) | 7/ 5/32 | ..... | ..... | 42 | 152 | 14 | 23 | 32 | 4 | |
| C-041d-K-13 | Mr. Young, Santa Fe Springs; 150 feet SW. of Los Nietos Road, 60 feet SE. of Painter Ave., extended. Use: Irrigation. Gravel 40-45; 90-104. | 1645G | 160 | *111 | \|\| | 233 | 8/13/31 | 45.3 | ..... | 31 | 223 | 14 | 33 | 1 | 36 |
| C-041k-J-13 | Murphy Ranch, S. of Whittier, 581 feet NW. of Painter Ave., 581 feet SW. of Mulberry Driv., extended. Use: Irrigation. Casing: 8 inches. L. A. C. F. C. D. and D. W. R. samples on 11/9/31 are same sample. | 1654D | 146 | (0) | 6/ 20/31 | ..... | ..... | ..... | 302 | 316 | 283 | 256 | 259 | 257 | 333 |
| C-041n-J-13 | W. H. Stabs, S. of Whittier; 45 feet S. of Mulberry Ave., 0.15 mile W. of Painter Ave. Use: irrigation. Casing: 12 inches. | 1654F | 148 | x62 | \|\| | 1679 | 1/ 6/33 | 342 | 0.33 | ..... | 244 | 178 | ..... | ..... | 57 |
| C-042e-K-13 | J. J. Rehni, E. of Norwalk; 1,460 feet S. of Imperial Hwy. Use: Irrigation. Casing: 12 inches. Perforated 934-688. | 1658B | 105 | *1,030 | \|\| | 232 | 8/13/31 | 119.7 | ..... | 54 | 375 | 84 | 210 | Tr. | 53 |
| C-044f-K-15 | L. Good, Well 1, La Habra; 250 feet W. of La Mirada Ave., 0.10 mile N. of Ocean Ave. Use: Domestic. Casing: 7 inches. Open bottom casing | 1737A | 244 | x180 | \|\| | 1771 | 2/12/33 | 167 | 0.14 | ..... | 122 | 209 | ..... | ..... | 41 |
| C-044g-K-15 | L. Good, Well 2, La Habra; 450 feet S. of P.E. Ry., 115 feet W. of La Mirada Ave. Use: Domestic and irrigation. Perforated 535-605. | 1737B | 265 | *x622 | \|\| | 1772 | 2/12/33 | 96.7 | 0.22 | ..... | 369 | 59 | ..... | ..... | 16.2 |
| C-047e-L-14 | Charles L. McComber, Plant 2, N. of Buena Park; 1,700 feet NE. of La Mirada Road, 500 feet E. of unnamed road. Use: Irrigation. Casing: 12 inches. Perforated 163-710. | 1101A | 120 | *740 | \|\| | (*) | 12/ 4/25 | ..... | ..... | 99 | 41 | 88 | ..... | 30 | Tr. |
| C-048m-L-14 | Standard Oil Co., Northern Well 4, NW. of Buena Park; 1,560 feet S. of Center St., 335 feet E. of N. and S. center line of Sec. 27, T. 3 S., R. 11W., S. B. & M., S. 5th St. W. of boiler house. Use: Boiler feed and domestic. Casing: 12 inches. | 1081A | 65 | x1,023 | \|\| | 37 | 6/ 5/31 | 48.9 | ..... | 79 | 195 | 21 | 57 | 0 | 16 |
| C-048p-L-14 | Charles L. McComber, Plant 4, NW. of Buena Park; 60 feet SW. of A. T. & S. F. Ry., 200 feet S. of La Mirada Road 110 feet E. of Human Road, extended. Use: Irrigation. Casing: 11-1/2 inches. Perforated 147-163; 160-202, 226, 253-267. | 1081D | 110 | 275 | \|\| | 38 | 6/ 5/31 | 58.9 | ..... | 48 | 238 | 27 | 75 | ..... | 40 |
| C-068b-K-15 | Union Oil Co., Well 6, NE. of La Habra; 300 feet E. of Fullerton Road, 1,875 feet N. of Whittier Ave. (State Highway). Use: Irrigation. Casing: 16 inches. Perforated 300-750. | 1765 | 471 | *x756 | (in) | Nov. 1927 | ..... | ..... | 54 | 336 | 115 | 311 | ..... | 58 | 51 |
| C-069f-K-16 | Union Oil Co., Well 9 NW. of Brea; 0.75 mile N. of Central Ave., 1,200 feet W. of Berry St. Use: Irrigation. Casing: 16 inches. Perforated 360-750. | 1785 | 561 | *x760 | (in) | 8/10/28 | ..... | ..... | 23 | 322 | 77 | 334 | ..... | 132 | 55 |
| C-069g-K-16 | Union Oil Co., Well 14, NW. of Brea; 475 feet S. of Central Ave., 190 feet W. of Puente St. Use: Irrigation. Casing: 16 inches. Perforated 400-1700. | 1786A | 374 | *1,709 | (in) | 5/ 9/31 | 163 | 0.24 | 47 | 220 | 162 | 423 | 13 | 59 | 59 |
| | | | | | (in) | 5/14/31 | ..... | ..... | 42 | 338 | 173 | 491 | ..... | 136 | 65 |

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electric conductivity ($K \times 10^3$ at 25°C) | Constituent (parts per million) | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|-----------|---|---------------------------------|--|-------------------------------------|------------------------------------|----------------|-------------|----|
| | | | | | | | | Boron ppm | Per cent sodium $Na \times 100$ $(Ca + Mg + Na)$ | Sulphate radicle (SO ₄) | Nitrate radicle (NO ₃) | Magnesium (Mg) | Sodium (Na) | |
| C-969h-K-16 | Union Oil Co., Well 5. W. of Brea; 320 feet S. of Ocean Ave., 800 feet E. of Puerto St. Use: Irrigation. Casing: 16 inches. Perforated 1260-1740. | 1787A | 338 | *x1.790 | (n) | Nov. 1927 | - | 71 | 433 | 177 | 192 | 24 | 260 | |
| | | | | | (n) | Apr. 1931 | - | 60 | 447 | 162 | 306 | 81 | 251 | |
| | | | | | (n) | June 1931 | 0.38 | 374 | 147 | 380 | 61 | 171 | | |
| | | | | | (n) | 6/20/31 | 163 | 0.27 | 43 | 378 | 138 | 115 | 177 | |
| | | | | | (n) | July 1931 | - | 57 | 416 | 156 | 372 | 2 | 177 | |
| | | | | | (n) | 6/9/31 | - | 57 | 348 | 107 | 341 | 81 | 235 | |
| | | | | | (n) | 7/31/31 | 99 | 0.33 | 44 | 369 | 84 | 2 | 25 | |
| C-970m-K-15 | D. J. Bastanchury, Well 1 (formerly Union San Juan Well 1). S. of La Habra; 1,200 feet E. of Cedar Ave.; 200 feet E. of Idaho St. Use: Irrigation. Casing: 18½ inches. Gravel 100-150; 350-622. Converted oil well. | 174sB | 300 | *x4.695 | (n) | 7/31/31 | - | 0.33 | 57 | 133 | 63 | 54 | 159 | |
| | | | | | (n) | 7/31/31 | - | 0.33 | 44 | 369 | 84 | 2 | 25 | |
| C-970p-K-15 | D. J. Bastanchury, Well 2. S. of La Habra; 1,200 feet S. of Cedar Ave.; 250 feet E. of Idaho St.; 50 feet E. of C-970m K-15. Use: Irrigation. Casing: 16 inches. | 174sC | 300 | x618 | (1) | 7/31/31 | 107 | 0.45 | 59 | 375 | 101 | Tr. | 59 | 22 |
| | | | | | (1) | 7/31/31 | - | 0.45 | 59 | 375 | 101 | Tr. | 59 | 22 |
| C-972i-K-16 | D. J. Bastanchury, Hill Forty, Well 2. W. of Brea; 1,750 feet S. of Ocean Ave. (Deodora St.), 100 feet W. of Puerto St. Use: Irrigation. Casing: 24 inches. Perforated 630-1380, plugged at 1,440 feet. Converted oil well. | 1788A | 352 | *x5.685 | (n) | 6/9/31 | - | 0.37 | 34 | 305 | 135 | 314 | 120 | |
| | | | | | (n) | 6/23/31 | 143 | 0.25 | 39 | 332 | 135 | 300 | 141 | |
| | | | | | (n) | 6/23/31 | - | 0.25 | 39 | 332 | 135 | 5 | 54 | |
| C-972l-K-16 | Union Oil Co., Well 16. W. of Brea; 100 feet S. of Cedar Ave.; 2,000 feet W. of Berry St. Use: Irrigation. Casing: 16 inches. Perforated 300-1446, sanded up to 1,232. The analysis (6/10/31) is of the water pumped from the well with the top water entering through a hole in the casing at 121 feet and which is shown by separate analysis (6/23/31). This top water drops into the hole to meet the lower level at about 150 feet. | 1788C | 330 | *x1.485 | (n) | 6/9/31 | 142 | 0.42 | 53 | 384 | 128 | 245 | 40 | |
| | | | | | (n) | 6/10/31 | - | 0.60 | 56 | 401 | 138 | 233 | 147 | |
| | | | | | (n) | 6/25/31 | - | - | 21 | 329 | 192 | 138 | 65 | |
| | | | | | (n) | June 1931 | - | - | 56 | 333 | 138 | 273 | 147 | |
| | | | | | (n) | July 1931 | - | - | 37 | 346 | 142 | 254 | 128 | |
| | | | | | (n) | 7/31/31 | 146 | 0.55 | 61 | 439 | 128 | 296 | 128 | |
| | | | | | (n) | 7/31/31 | - | - | 61 | 439 | 128 | 296 | 128 | |
| | | | | | (n) | 7/31/31 | - | - | 61 | 439 | 128 | 296 | 128 | |

• Log files of Division of Water Resources.

x Water levels in files of Division of Water Resources.

I-I-loads = small equivalent quantity of carbonic acid (O₂CO₃).b Sulphate (SO₄) determined by turbidity method.

c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

d Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.

e Analysis by Los Angeles County Flood Control District, Los Angeles.

f Analysis by Orange County Flood Control District, Santa Ana, California.

g Analysis by Smith-Emery Company, Los Angeles.

h Analysis by City of Long Beach, Engineering Laboratory.

i Analysis by Association Laboratory, Mission, California.

j Analysis by United Oil Co., California.

k Analysis by International H. M. Bergen, F. Allerton, California.

l Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

m Analysis by United States Geological Survey.

p Analysis by United States Geological Survey.

TABLE 13. SURFACE WATERS IN LOWER SAN GABRIEL RIVER AREA

| Number | Location and description | Location number | Elevation of ground | Discharge in second-foot | Laboratory number | Date | Specific electrical conductivity (K x 10 ⁻⁴ at 25° C.) | Constituents (parts per million) | | | | | |
|-------------|---|-----------------|---------------------|--------------------------|-------------------|---------|---|----------------------------------|--------------------------|---|-------------------------------------|------------------------------------|------------------------------------|
| | | | | | | | | Boron ppm | Per cent sodium Na x 100 | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) |
| S502-0-12 | San Gabriel River, E. of Long Beach. Sampled at Ocean Ave. bridge. Small flow. | S502 | 5 | ..... | 767 | 3/ 2/32 | 300 | 1.80 | 72 | 335 | 586 | 288 | 0 |
| S959-N-11 | Open drain, E. of Signal Hill. Sampled at E. side of Cerritos Ave., 0.4 mile S. of Spring St. Discharge estimated. | S959 | 25 | 1 ± | 242 | 8/20/31 | 37.8 | ..... | 69 | 195 | 20 | 2 | Tr. |
| S1062-L-13 | Coyote Creek, E. fork W. of Buena Park Valley View Ave. Discharge from L. V. C. F. C. D. gauging station 41, below P. E. Ry. bridge near Artesia St. | S1062 | 50 | 0.15 | 858 | 3/24/32 | 92.1 | 0.44 | 50 | 329 | 94 | 64 | 10 |
| S-1054-M-13 | Coyote Creek, E. of Artesia. Sampled at Orangeithorpe Ave. bridge, 0.18 mile E. of Carnita Ave. U.S. D. A. and D. W. R. analyses on 3/2/32 are from same sample. Discharge estimated 1/3/33. Small flow on other dates. | S1054 | 40 | ..... | 744 | 3/15/32 | 281 | 2.24 | 73 | 345 | 674 | ..... | ..... |
| | | | | | 705 | 3/2/32 | 294 | 2.43 | 75 | 337 | 744 | 52 | 79 |
| | | | | | (5) | 3/2/32 | 297 | 2.43 | 75 | 333 | 737 | 53 | 83 |
| | | | | | 1757 | 1/31/33 | 59.2 | 0.30 | 159 | 45 | 159 | 45 | 404 |
| S1028-N-13 | Coyote Creek, W. of Los Alamitos. Sampled at Spring St. bridge, 0.20 mile W. of Los Alamitos Blvd. Small flow. | S1028 | 20 | ..... | 766 | 3/ 2/32 | 370 | 2.34 | ..... | 479 | 843 | ..... | ..... |
| S1061-L-13 | Open drain. Along N. road gutter NW. of Buena Park. Sampled at NE. corner of Marquardt Ave. and Center St. Small flow. | S1061 | 66 | ..... | 738 | 2/12/32 | 95.9 | 0.34 | ..... | 223 | 106 | ..... | ..... |
| S1636-K-13 | George F. Getty Co. SE. of Santa Fe Springs. Oil well waste water from sump hole at intersection of Lakeland Road and A. T. & S. F. Ry. main line. Waste water from Santa Fe Springs oil fields. | S1636 | 155 | ..... | 1345 | 9/ 5/32 | 942 | 9.40 | 94 | 369 | 2,929 | 32 | 0 |
| | | | | | | | | | | | | 55 | 26 |
| | | | | | | | | | | | | 1,847 | |

^a Includes small equivalent quantity of Carbonate (CO₃²⁻).^b Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^c Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|----------|---|-----------|--|---|---|-----------------------------------|---------------------------------------|------------------------------------|-------------------------------------|---------------------------|
| | | | | | | Specific electrical conductivity ($K \times 10^6$ at 25°C) | Boron ppm | Per cent sodium ($\text{Na} \times 100$) | Per cent sodium ($\text{Ca} + \text{Mg} + \text{Na}$) | Bicarbonate radius (HCO_3^-) | Chloride radius (Cl^-) | Sulfate radius (SO_4^{2-}) | Nitrate radius (NO_3^-) | Alumina (Al_2O_3) | Magnesium (Mg}) | Sodium ($\text{Na}$) |
| B 334 K 6 | Standard Oil Co., Well 7, El Segundo; 2500 feet S. of El Segundo Blvd., 440 feet E. of Main St., extended, 200 feet E. of tanks 408 and 9408. Use: Industrial. Casing: 16 inches. Perforated 214-302, perforated at 460-475. L. A. D. of W. & P. No. 9-D-11. | 135 | *x475 | (*) | 11/ 8/29 | 31 | 236 | 104 | 6 | 68 | 66 | 13 | 17 | 49 | — |
| | | | (*) | 12/ 5/29 | 52 | 330 | 100 | 6 | 6 | 39 | 33 | 65 | 16 | 110 | 110 |
| | | | (*) | 1/ 7/30 | 42 | 300 | 102 | 3 | 3 | 39 | 45 | 69 | 19 | 75 | 75 |
| | | | (*) | 3/ 4/30 | 38 | 300 | 100 | 10 | 10 | 30 | 34 | 69 | 19 | 75 | 75 |
| | | | (*) | 4/ 20/30 | 38 | 300 | 100 | 8 | 8 | 313 | 101 | 70 | 19 | 70 | 70 |
| | | | (*) | 5/ 9/30 | 30 | 300 | 101 | Tr | Tr | 105 | 105 | 66 | 19 | 70 | 70 |
| | | | (*) | 6/ 9/30 | 55 | 121 | 116 | 2 | 2 | 226 | 105 | 66 | 16 | 46 | 46 |
| | | | (*) | 7/ 7/30 | 47 | 236 | 157 | 5 | 5 | 157 | 157 | 65 | 15 | 92 | 92 |
| | | | (*) | 11/ 14/30 | 39 | 305 | 147 | 5 | 5 | 39 | 39 | 79 | 21 | 85 | 85 |
| | | | (*) | 12/ 9/30 | 36 | 304 | 110 | 2 | 2 | 302 | 112 | 72 | 21 | 68 | 68 |
| | | | (*) | 2/ 13/31 | 47 | 234 | 136 | 14 | 14 | 272 | 136 | 70 | 14 | 65 | 65 |
| | | | (*) | 2/ 28/31 | 45 | 106 | 10 | 10 | 10 | 299 | 104 | 70 | 13 | 68 | 68 |
| | | | (*) | 3/ 16/31 | 35 | 288 | 139 | 12 | 12 | 299 | 120 | 73 | 20 | 67 | 67 |
| | | | (*) | 4/ 6/31 | 38 | 288 | 139 | 12 | 12 | 299 | 120 | 78 | 19 | 77 | 77 |
| | | | (*) | 6/ 18/31 | 34 | 293 | 108 | 5 | 5 | 293 | 108 | 70 | 24 | 66 | 66 |
| | | | (*) | 7/ 31/31 | 30 | 302 | 112 | 12 | 12 | 302 | 112 | 70 | 22 | 64 | 64 |
| | | | (*) | 8/ 8/32 | 36 | 283 | 114 | 10 | 10 | 296 | 112 | 72 | 23 | 69 | 69 |
| | | | (*) | 9/ 3/32 | 35 | 296 | 112 | 10 | 10 | 296 | 112 | 72 | 23 | 69 | 69 |
| | | | (*) | 10/ 8/32 | 35 | 299 | 114 | 14 | 14 | 0 | 71 | 23 | 68 | 68 | |
| | | | (*) | 11/ 10/32 | 35 | 302 | 112 | 12 | 12 | 302 | 112 | 70 | 24 | 66 | 66 |
| | | | (*) | 11/ 3/32 | 35 | 296 | 112 | 10 | 10 | 296 | 112 | 70 | 23 | 66 | 66 |
| | | | (*) | 12/ 13/32 | 35 | 299 | 112 | 5 | 5 | 299 | 112 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 12/33 | 34 | 296 | 110 | 17 | 17 | 296 | 110 | 69 | 22 | 68 | 68 |
| | | | (*) | 12/ 13/33 | 32 | 296 | 110 | 14 | 14 | 296 | 110 | 69 | 22 | 68 | 68 |
| | | | (*) | 12/ 10/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 11/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 17/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 18/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 19/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 20/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 21/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 22/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 23/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 24/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 25/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 26/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 27/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 28/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 29/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 30/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 31/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 32/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 33/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 34/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 35/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 36/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 37/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 38/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 39/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 40/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 41/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 42/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 43/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 44/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 45/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 46/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 47/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 48/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 49/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 50/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 51/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 52/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 53/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 54/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 55/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 56/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 57/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 58/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 59/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 60/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 61/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 62/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 63/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 64/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 65/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 66/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 67/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 68/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 69/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 70/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 71/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 72/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 73/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 74/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 75/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 76/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 77/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 78/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 79/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 80/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 81/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 82/33 | 36 | 296 | 110 | 17 | 17 | 296 | 110 | 72 | 24 | 67 | 67 |
| | | | (*) | 12/ 83/33 | 36 | 296 | 110 | 17 | 17</td | | | | | | |

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well (in feet) | Laboratory number | Date | Specific electrical conductivity ($\text{mho} \cdot \text{cm}^{-1}$ at 25°C) | Boron ppm | Percent sodium sodium ($\frac{\text{Na}}{\text{Ca} + \text{Mg} + \text{Na}}$) | (Constituents (parts per million)) | | | |
|-------------|---|-----------------|---------------------|-------------------------------|-------------------|---------------------------------|---|-----------|---|------------------------------------|---------------------------------|--------------------------------|--------------------------------------|
| | | | | | | | | | | Sulfate radon- SO_4^{2-} | Nitrate radile- NO_3^- | Chloride radile- Cl^- | Bicarbonate radile- HCO_3^- |
| B-3Sh-L-7 | City of Inglewood, Well 15, Inglewood; 193 feet NW of A. T. & S. F. Ry.; 605 feet NE of Centinela Ave. Use: Municipal. Casing: 18 inches. Perforated 130-145, 152-168. | 1352H | 138 | *382 | (g) | 7/16/31 | ..... | ..... | 234 | 52 | 180 | ..... | ..... |
| B-41-K-7 | City of Hawthorne, Well 1, Hawthorne; 265 feet W. of Ramona Ave., 675 feet N. of El Segundo Blvd. Use: Municipal. Casing: 12 inches. Perforated 320-364, 405-412. | 1348 | 90 | *x569 | (g) | 7/16/31 | ..... | ..... | 293 | 32 | 15 | ..... | ..... |
| B-41a-K-7 | City of Hawthorne, Well 2, Hawthorne; 75 feet W. of Ramona St., 605 feet N. of El Segundo Blvd. Use: Municipal. Case, 14 inches. Perforated 321-360; 400-403; 454-469; 622-634. | 1348A | 95 | *x679 | (g) | 7/16/31 7/31/31 | 56.4 | 47 | 327 | 31 | 25 | 0 | 37 |
| B-44-K-8 | C. A. Van Nest, Hawthorne; 35 feet S. of June St., 300 feet W. of Walnut Ave. Use: Domestic. Casing: 6 inches | 1366 | 81 | x160 | 1298 | 8/29/32 | 76.1 | 0.08 | *222 | 98 | ..... | ..... | 17 |
| B-44a-K-8 | O. T. Johnson Ranch, Well 3, NE. of Hawthorne; 50 feet S. of Imperial Hwy., 400 feet E. of Arlington Ave. Use: Irrigation. Casing: 12 inches. Perforated 233-244; 320-344. | 1386A | 125 | *407 | 208 | 8/ 6/31 | 56.3 | ..... | 35 | 253 | 11 | 31 | 0 |
| B-54-K-8 | American States Water Service Co. (formerly Gardena Valley Water Co.), Balboa Plant, W. of Athens; 150 feet S. of El Segundo Blvd.; 222 feet W. of Budlong Ave. Use: Municipal. Casing: 16 inches. Perforated 273-277, 285-320; 447-500; 525-533. | 1408 | 135 | *x564 | (b) | 12/ 6/30 | ..... | ..... | 29 | ..... | 32 | 47 | ..... |
| B-54c-K-8 | American States Water Service Co., Well 3, SE. of Athens; 6 feet S. of 135th St., 400 feet W. of Vermont Ave. Use: Municipal. Casing: 16 inches. Perforated 240-280, 408-412; 444-450, 500-518, 536-582. | 1409A | 83 | *x582 | (b) | 12/ 6/30 8/ 6/31 | 56.8 | ..... | 34 | ..... | 31 | 82 | 0 |
| B-54g-L-9 | Mrs. B. Leitch, Well 1, N. of Gardena; 200 feet N. of Rosecrans Ave., 115 feet E. of Hoover St., extended. Use: Domestic. Casing: 8 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/14/31 are from same sample. | 1419 | 92 | x160 | (c) (e) | 6/16/31 11/14/31 | ..... | ..... | 268 | 62 | 55 | ..... | ..... |
| B-54g-L-10 | City of Manhattan Beach, Well 1, Manhattan Beach; 15 feet W. of Sepulveda Blvd., 190 feet S. of 8th St. Use: Municipal. Casing: 16 inches. Perforated 221-240; 527-541. | 701B | 139 | *x1,000 | (c) | 6/20/31 | ..... | ..... | 280 | 52 | 52 | 75 | 24 |
| B-84-L-6 | City of Manhattan Beach, Well 2, Manhattan Beach; 20 feet N. of 8th St., 250 feet W. of Sepulveda Blvd. Use: Municipal. Casing: 16 inches. Perforated 222-252; 244-263. | 701 | 155 | *339 | (c) (e) | 6/20/31 8/24/32 | 69.1 | 0.18 | 277 | 78 | 15 | 23 | 2 |
| B-84a-L-6 | City of Manhattan Beach, Well 3, Manhattan Beach; 75 feet W. of Sepulveda Blvd., 15 feet S. of 8th St. Use: Municipal. Casing: 14 inches. Perforated 214-218, 225-235. L. A. D. of W. & P. No. 8-A-2. | 701A | 150 | *547 | (f) | 11/13/29 12/ 9/29 | ..... | ..... | 254 | 67 | 15 | 23 | 51 |
| B-84b-L-6 | City of Manhattan Beach, Well 4, Manhattan Beach; 255 feet S. of 8th St., 235 feet W. of Sepulveda Blvd. Use: Municipal. Casing: 16 inches. Perforated 239-245; 248-255. | 701C | 155 | *617 | (c) (e) | 6/20/31 7/23/31 | 70.8 | 42 | 247 | 89 | 23 | 2 | 51 |
| B-85c-L-6 | Herman Vetter, Hermosa Beach; 125 feet N. of 16th St., 400 feet W. of Camino Real, 300 feet E. of A. T. & S. F. Ry. Use: Domestic. Casing: 6 inches. | 712 | 100 | *x502 | (g) | 7/17/31 7/21/31 | ..... | ..... | 196 | 103 | 23 | 11 | 15 |
| B-85-L-7 | California Water Service Co., Plant 5, Well 6, Redondo Beach; 50 feet E. of Pier Ave., between Carnegie and Gould Aves.; Two wells in same pit. Use: Municipal. Casing: 12 inches. Perforated 190-742. | 712A | 90 | x260 | 406 | 10/ 6/31 3/24/32 | 69.7 | 0.09 | 36 | 268 | 76 | 33 | 0 |
| B-85d-L-7 | California Water Service Co., Plant 6, Well 9, Redondo Beach; 60 feet W. of Pier Ave., between Carnegie and Gould Avenues, opposite Plant 5. Use: Municipal. Casing: 16 inches. | 713 | 105 | 273 | (g) | 7/17/31 7/21/31 | 64.9 | 0.14 | 40 | 253 | 53 | 16 | 0 |
| B-85e-L-7 | Walter Haviland, Redondo Beach; 80 feet W. of Pier Ave., 110 feet N. of Ormand Lane. Use: Not used. Casing: 12 inches. Samples are from 140, 160, 160 feet, and surface of water, respectively. | 713 | 125 | x192 | (d) (e) (f) | 11/ 9/31 11/ 9/31 4/21/32 | ..... | ..... | 258 | 61 | 25 | 0 | 56 |

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^6$ at $25^\circ C$) | Per cent solid in bottom pump | Constituents (parts per million) | | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|--|--|-------------------------------|----------------------------------|-----------------------------------|-----------------------------|---------------------------------|------------------------------|----|-----|-----|
| | | | | | | | | | Na + Mg + Na | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | | | |
| B-85f-L-7 | California Water Service Co., Plant 5, Well 5, Redondo Beach; 50 feet E. of Pier Ave., between Carnegie and Gould Aves.; Two wells in same pit. Use: Municipal. Casing: 12 inches. (travel P-3, 200, 255, 255, 277, 281, 285, 300). | 712B | 100 | *340 | (e) | 7/17/31 | ..... | ..... | 254 | 58 | 130 | ..... | ..... |  |  |  |
| B-86b-M-7 | Southern California Edison Co., Ltd., Hermosa Beach; 125 feet N. of Anita St., 300 feet E. of Camino Real, back of ice plant. Use: Abandoned. Casing: 14 inches. Perforated 200-235. Both samples taken from surface of water. | 714 | 82 | *x281 | (e) | 6/27/31 7/14/31 | ..... | ..... | 253 171 | 57 53 | ..... | ..... | ..... |  |  |  |
| B-86e-M-7 | California Water Service Co., Hermosa-Redondo Well 3, Redondo Beach; 30 feet E. of Maria St., 150 feet N. of Garnet St., 0.17 mile N. of Torrance Blvd. Use: Municipal. Casing: 15 inches. Perforated 228, 232, 232, 256, 256, 259. | 725 | 150 | *x526 | 144 | 7/21/31 | 59.4 | ..... | 46 | 244 | 71 | 3 | 1 | | | |
| B-86h-M-7 | Redondo Union School, Redondo Beach; 40 feet S. of P.E.R.Y. on W. line of Maria St., extended. Use: Irrigation and domestic. Casing: 20 inches. Perforated 224, 230, 250, 267. | 725C | 120 | *x336 | (e) | 7/21/31 | 55.0 | 0.10 | 40 | 232 | 60 | 12 | 0 | 43 | 18 | 55 |
| B-87-M-7 | California Water Service Co., Old Well 5, Redondo Beach; 150 feet N. of Pearl St., 90 feet W. of Irene Ave., interconnected at 90-foot depth, to Old Well 3, 60 feet north. Use: Not used. Casing: 14 inches. Perforated 210-241. Samples on 6/18/31 were taken at surface of water and at depth of 35 feet. Samples on 7/14/31 were from depths of 120, 200, and 225 feet, respectively. Samples on 10/6/31 were from depths of 110 and 223 feet. Samples on 4/21/32 were from depths of 110 and 230 feet. | 716 | 96 | *x306 | (e) | 6/18/31 | | | 232 | 60 | 226 | 60 | 226 | 60 | 226 | 60 |
| B-88-M-7 | California Water Service Co., Old Well 8, Redondo Beach; 150 feet N. of Pearl St., 90 feet W. of Irene Ave., interconnected at 90-foot depth, to Old Well 3, 60 feet north. Use: Not used. Casing: 14 inches. Perforated 210-241. Samples on 6/18/31 were taken at surface of water and at depth of 35 feet. Samples on 7/14/31 were from depths of 120, 200, and 225 feet, respectively. Samples on 10/6/31 were from depths of 110 and 223 feet. Samples on 4/21/32 were from depths of 110 and 230 feet. | 722 | 75 | *x401 | (e) | 7/16/31 7/21/31 | 79.1 | | 52 | 351 | 91 | 15 | 0 | 46 | 23 | 106 |
| B-89h-L-7 | California Water Service Co., Plant 8, Well 8, Pump 11, NW. of Redondo; 1.7 miles W. along Redondo-Wilmington Blvd., 500 feet N. of intersection of Redondo-Wilmington Blvd. and Paso de Gracia, back of Rifle Range. Use: Formerly municipal, not used since 1932. Casing: 18 inches. Perforated 224, 230. | 732 | 100 | *x449 | (e) | 11/13/29 12/9/29 1/7/30 4/10/30 5/9/30 6/9/30 8/27/30 10/21/30 11/14/30 2/13/31 3/9/31 4/6/31 7/17/31 7/21/31 | | | 41 | 242 | 66 | 49 | 61 | 12 | 664 | |
| B-90-L-7 | California Water Service Co., Plant 8, Well 8, Pump 12, Well 12, Pump 12. Redondo Beach; 200 feet S. of Redondo-Riverside Blvd. (Gould Ave.) 40 feet E. of Blossom Lane, 130 feet N. of Mathews Ave. Use: Municipal. Casing: 16 inches. L. A. D. of W. & P. No. 8-A-7. | 722B | 110 | 500 | (e) | 10/24/30 2/13/31 3/9/31 4/6/31 7/21/31 | | | 42 | 248 | 74 | 31 | 64 | 9 | 666 | |
| B-91-L-7 | American States Water Service Co., Well 13, Lawndale; 140 feet S. of Chicago St. (Amestoy Ave.), 15 feet W. of 5th Ave. Done 1. Perforated 278, 280. | 740 | 60 | *x438 | \|\| | 170 | 7/23/31 | 56.2 | | 43 | 320 | 27 | Tr. | 41 | 20 | 64 |

(e) Done 1. Perforated 278, 280.

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|--------------------------------|--|--------------------|--|--|------------------------------------|-------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-------------------------------|---------------------------|
| | | | | | | | Specific electric conductivity (K at 25°C) | Boron ppm | Per cent Boron Na x 100 C _a + Na _b | Per cent Boron Na x 100 M _a + Na _b | Sulfate radicle (SO ₄) | Chloride radicle (Cl ⁻) | Chloride radicle (HCO ₃) | Barium radicle (Ba ²⁺) | Nitrate radicle (NO ₃) | Magnesium (Mg ²⁺) | Sodium (Na ⁺) |
| B-94-M-7 | Bob Veda (Dr. Ellwood lease), SE. of Redondo Beach; 1 mile W. of Hawthorne Ave., 500 feet S. of Redondo-Long Beach Road, 1,100 feet E. of SE. corner of Redondo Beach City Boundary. 1 acre. Irrigation. Casting: 16 inches. Perforated. 345, 344, 330, 325, 330, 355, 337, 330. | 737 | 110 | *x416 | (e) | 12/18/31 3/24/32 5/11/32 | 58.5 0.27 | 58 0.20 | 55 56 | 342 290 | 71 52 | 17 | 0 | 0 | 34 0 | 11 34 | N-2 N-1 |
| B-94c-M-7 | C. H. Quandt, Well 2, SW. of Torrance; 85 feet E. of Ocean Ave., 615 feet S. of Redondo-Long Beach Blvd., 50 feet SE. of Well 1. 1 acre. Irrigation and domestic. Casting: 14 inches. Perforated 214, 275. | 747A | 80 | *300 | (e) | 7/23/31 11/9/31 | 56.7 | ..... | 63 | 284 273 | 46 43 | 1 | Tr. | 24 | 12 | ** | |
| B-95-N-7 | Bob Veda (Dr. Ellwood lease), Well 3, SE. of Redondo Beach; 60 feet N. of Redondo-Wilmington Blvd., 800 feet E. of bend in road, 0.85 mile W. of Hawthorne Ave. Use: Irrigation and domestic. Casting: 12 inches. Perforated 282-297; 346-360. | 739 | 108 | *x367 | (d) | 7/23/31 8/23/32 5/11/32 | 102.2 102 104 | 41 0.32 0.24 | 41 41 40 | 415 420 430 | 126 142 130 | 17 14 15 | 0 | 70 0 70 | 36 0 70 | 103 161 100 | |
| B-100D-N-8 | Union Oil Co. SW. of Torrance; 100 feet S. of Lomita Blvd., 0.4 miles NW. of Pennsylvania Ave., inside tank farm. Use: Fire prevention and domestic. Casting: 14 inches. Gravel 188-197, 230-300. | 769 | 77 | *660 | (f) | 7/23/31 | 60.6 | ..... | 72 | 265 | 67 | 0 | 0 | 19 | 11 | 107 | |
| B-103-M-8 | Columbia Steel Co., Well 2, Torrance; 500 feet S. of 208th St., 1,100 feet E. of Arlington Ave. Use: Industrial. Casing: 14 inches. Perforated 122, 160, 206, 306, 330, 450. | 785 | 65 | *x653 | (f) | 15/6 | 12/8/32 | 55.1 | 0.19 | 46 | 238 | 48 | 4 | 2 | 34 | 17 | 60 |
| B-103a-M-8 | Columbia Steel Co., Well 1, Torrance; 500 feet E. of Arlington Ave., 600 feet S. of 208th St. Use: Industrial and domestic. Casting: 14 inches. Perforated 293-304; 350-364; 380-385; 577-588. | 785A | 67 | *613 | (f) | 169 | 7/23/31 | 51.6 | ..... | 47 | 244 | 39 | 6 | 1 | 22 | 17 | 60 |
| B-103b-L-8 | Southern California Edison Co., Ltd., Torrance; 250 feet W. of Western Ave., 300 feet N. of 190th St. (Domínguez St.). Use: Industrial. Casting: 12 inches. Perforated 410, 458, 522, 525. | 794 | 57 | *x550 | (f) | 165 | 7/23/31 | 44.6 | ..... | 45 | 241 | 27 | 3 | Tr. | 35 | 12 | 52 |
| B-106-L-8 | American States Water Service Co. (formerly Gardena Valley Water Co.), Well 2, Gardena; 50 feet S. of Estesoy Ave., 30 feet W. of Esther St., extended in wooden pump house. Use: Municipal. Casting: 16 inches. Gravel 190-220; 370-680. | 800 | 53 | *x680 | (b) | 166 | 12/6/30 7/23/31 | 55.7 | ..... | 32 34 | 229 229 | 35 25 | 47 63 | 0 | 54 5 | 15 15 | 44 48 |
| B-106f-L-9 | Gordon Ranch, NE. of Gardena; 60 feet W. of Harbor Blvd. (Main St.), 2,100 feet N. of Riverside-Redondo Blvd., under derrick W. & P. No. 7-A-11. | 820A | 120 | *x299 | (f) | 10/27/30 3/17/31 | ..... | ..... | 20 51 | 199 224 | 64 100 | 80 136 | 91 100 | 91 5 | 10 4 | 311 103 | |
| B-106p-L-9 | J. W. Goode, Gardena; 75 feet S. of Olive St. (161st St.), 130 feet E. of Menlo Ave., 750 feet E. of Vermont Ave. Use: Irrigation. | 811B | 41 | x40 | (f) | 1/13/33 | 62.2 | 0.12 | 35 | *265 | 41 | 51 | 2 | 5 | 1- | 54 | |
| B-107b-L-8 | Roosevelt Memorial Park, S. of Gardena; 400 feet S. of 1824 St., 400 feet W. of Normandie Ave. Use: Irrigation. Casing: 10 inches. Perforated 326-546, 594-604. L. A. C. F. C. D. and D. W. R. analyses on 11/14/31 are from same sample. | 803 | 44 | *679 | (d) | 11/14/31 521 | 63.0 | ..... | ..... | 226 229 | 80 69 | ..... | ..... | ..... | ..... | ..... | ..... |
| B-107c-L-9 | William C. Gibbons (lessee), SE. of Gardena; 0.23 mile S. of 182d St., 100 feet E. of Figueroa St. Use: Domestic. Casting: 5-foot deep shaft. L. A. C. F. C. D. and D. W. R. analyses on 11/14/31 are from same sample. | 813 | 26 | 25 | (d) | 7/15/31 11/14/31 1807 | 112 110 | 0.16 | ..... | 293 241 | 183 169 | 132 133 | ..... | ..... | ..... | ..... | ..... |
| B-107d-L-9 | Ren Ayala, SE. of Gardena; 300 feet W. of Figueroa St., 300 feet N. of 182d St. Use: Irrigation. | 812 | 28 | 42 | (d) | Dec. 18/31 | 209 | 0.22 | ..... | 549 473 311 | 134 371 348 | 20 20 | 1NN 1NN | 66 140 | 66 140 | 134 134 | |
| B-108-M-8 | F. S. Austin, E. of Torrance; 200 feet N. of East Road, 130 feet E. of Walnut St. Use: Not used. Casting: 7 inches. | 805 | 35 | x----- | (d) | 6/23/31 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 67 | 67 | |

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

TABLE 14. WILLS IN REBONDO-LONG BEACH AREA Continued

| Well number | Location and description | Elevation of ground | Location number | Total depth of well in feet | Laboratory number | Date | (Constituents (parts per million) | | | | | | | | | |
|-------------|--|---------------------|-----------------|-----------------------------|---|---|--|---|--|---|-------------------------------------|---|---|------------------------------|--------------------------------|--------------------------|
| | | | | | | | Specific electrical conductivity ($\text{K} \times 10^{-3}$ at 25°C) | Boron ppm | Per cent sodium | Boronate radicle ($\text{Na} \times 100$ / $(\text{Ca} + \text{Mg} + \text{Na})$) | Borate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca^{2+}) | Magnesium (Mg^{2+}) | Sodium (Na^+) |
| B 124x M 10 | Mr. Myers, NW. of Long Beach; 50 feet E. of Denver Ave., 300 feet S. of 223d St. (Wilmington St.), 0.22 mile E. of Santa Fe Ave. Windmill. Use: Domestic. Casing: 2 inches. L.A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample. | 587A | 29 | 110 | (4) 12 (3) 6 (4) 11 (4) 11/7/31 (4) 11/7/31 | Oct. 1929 | | | 307 363 303 | 153 966 1,155 1,593 | | | | | | |
| B 124i M 10 | Mr. Kawaiichi, NW. of Long Beach; 300 feet N. of 223d St., 0.22 mile E. of Santa Fe Ave. Use: Irrigation. Gravel 80-109. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample. | 587B | 30 | *130 | (4) 12 (3) 6 (4) 11 (4) 11/7/31 (4) 11/7/31 | Oct. 1929 | | | 332 311 352 | 56 1-S6 72 | | | | | | |
| B 124j M 10 | S. D. Wilson, NW. of Long Beach; 700 feet S. of 223d St., 500 feet W. of Santa Fe Ave. (Perris Ave.), near power line. Use: Irrigation, changing effect on crops noted by remains. Casing: 12 inches. Gravel 91-108. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample. | 587E | 26 | *125 | (4) 6/19/31 (3) 5/22 (4) 5/14/32 | 6/19/31 11/7/31 229 | | | 476 431 445 | 91 477 458 | | | | | | |
| B 124k M 10 | R. W. Pindexter, NW. of Long Beach; 25 feet S. of 223d St. (Wilmington St.), 1,000 feet E. of Santa Fe Ave. (Perris Ave.). Use: Irrigation. Casing: 8 inches. | 587F | 29 | 120 | (4) 3/17/30 (3) 6/18/31 (4) 11/18/31 (4) 11/18/31 | 3/17/30 2/25/32 5/13/32 201 | 0.56 40 44 | 263 300 332 312 | 96 353 501 440 | | 180 163 125 0 | | 31 | e | | |
| B 125 N 10 | Chinese tenant, NW. of Long Beach; 40 feet S. of 32d St., extended, 600 feet W. of Santa Fe Ave. (Perris Ave.). Use: Irrigation. Casing: 12 inches. | 588A | 23 | ----- | (4) 6/8/31 (3) 11/7/31 (4) 11/7/31 | 12/15/30 2/3/33 3/6/33 | 1.70 281 0.91 | 330 308 692 | 124 696 522 | | 115 206 0 | | 66 | 2 | | |
| B-125a M 10 | Bell Ranch, NW. of Long Beach; 50 feet N. of Wardlow St. at head of Delta St. Use: Domestic. Casing: 4 inches. L.A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample. | 588 | 26 | ----- | (4) 11/7/31 (3) 12/9/32 (4) 12/9/32 | 558 | 1.18 | 505 497 | 146 1,576 | | | | | | | |
| B-125a M 10 | Manuel Pinentell, Long Beach; 600 feet E. of Santa Fe Ave. (Perris Road), 600 feet S. of Spring St. Use: Irrigation. Casing: 12 inches. | 588D | 21 | *135 | (4) 10/17/29 (3) 11/7/31 | 10/17/29 11/7/31 | 159 | ----- | 445 330 433 475 | 242 357 254 192 | | | | | | |
| B 125 N 10 | City of Long Beach, Silverado Well 1, NW. of Long Beach; 50 feet S. of 32d St., 1,300 feet E. of Santa Fe Ave. Use: Proposed municipal, but not used. Casing: 36 inches. Perforated 395-900. Samples on 7/31/31, 8/4/31, 8/12/31 and 2/8/32 are from depths of 710, 384, 51, 250, 871, and 250 feet respectively. Those on 8/18/31, 8/18/31, and 11/7/32 are from pumping tests. | 588H | 27 | *1074 | (4) 7/31/31 (3) 8/4/31 (4) 8/18/31 (3) 8/19/31 (4) 12/9/31 (3) 12/9/31 (4) 12/9/31 (3) 12/9/31 | 7/31/31 8/4/31 8/18/31 8/19/31 12/9/31 12/9/31 12/9/31 12/9/31 | ----- ----- ----- ----- ----- ----- ----- ----- | 65 82 62 65 41 559 54 55 | 222 198 128 144 104 96 73 807 | 29 27 39 40 0 43 135 113 | | 41 13 26 40 0 135 39 206 | 9 0 4 26 135 39 61 e4 209 | | | |
| B 126 N 10 | Irwin Stewart, NW. of Long Beach; 200 feet W. of Santa Fe Ave. (Perris Ave.), 0.25 mile N. of Willow St. Use: Irrigation. Casing: 5 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample. | 589B | 21 | x115 | (4) Oct. 1929 (3) 12/9/30 (4) 6/12/31 (4) 8/3/32 (4) 11/7/31 | Oct. 1929 12/9/30 6/12/31 8/3/32 11/7/31 | 203 200 221 229 0.30 | 42 44 464 446 509 | 480 495 478 446 288 | 291 291 266 284 408 | | 187 1-S6 0 0 0 | 46 50 2 210 51 | 2 | | |

TABLE 14. WILLS IN REDONDO-LONG BEACH AREA—Continued

| Well number | Location and description | Constituents (parts per million) | | | | | | | | | |
|-------------|---|----------------------------------|---------------------|-----------------------------|--------------------|--|---|--------------|-----------------------------------|------------------------------------|------------------------------------|
| | | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^6$ at 25°C) | Boron ppm | Percent sodium Na x 100 / Ca + Mg | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Magnesium (Mg) |
| 3-126b-N-10 | Irwin Stewart, NW, of Long Beach; 800 feet W. of Santa Fe Ave. (Peris Ave.), 0.25 mile N. of Willow St., 50 feet W. of irrigation well. Use: Irrigation. Casing: 14 inches. Perforated 103-120. Samples on 11/17/31 were from surface of water and near bottom of well. | 889A | 20 | *128 | (d) d d | 6/12/31 11/17/31 11/17/31 | ----- | ----- | 283 413 141 | 257 273 272 | ----- |
| 3-126c-N-10 | Mr. Peterson, Long Beach; 50 feet N. of 25th St., 125 feet E. of Santa Fe Ave. (Peris Ave.). Use: Irrigation. Casing: 8 inches. Perforated 98-110; 120-131. Pump removed in May, 1932. | 889C | 20 | *x85 | (d) d d d | Oct. 1929 12/ 9/30 6/12/31 Dec. 1931 5/13/32 | ----- | ----- | 331 247 304 325 283 | 67 136 146 71 90 | ----- |
| 3-126d-N-10 | H. & J. Maybury Co., NW, of Long Beach; 800 feet S. of Spring St., 600 feet E. of Santa Fe Ave. (Peris Ave.). Use: Not used. Casing: 12 inches. Perforated 98-110; 120-131. Pump removed in May, 1932. | 889D | 21 | *145 | (d) d d | 10/17/29 12/ 9/30 6/19/31 | ----- | ----- | 376 286 | 46 161 | ----- |
| 3-126f-N-10 | Oil Operators, Inc., Test Well 4, Long Beach; 65 feet S. of Willow St., 45 feet E. of Gale Ave. Use: Test well, not used. Casing: 8 inches. Perforated 105-120. Samples on 10/5/31 were from depths of 93 and 118 feet, respectively. | 899 | 19 | *x131 | (d) d d | 12/12/30 6/23/31 397 10/ 5/31 398 10/ 5/31 | ----- | 0.13 0.40 | 273 139 421 601 | 250 234 240 249 | 0 0 188 49 |
| 3-127-M-10 | Fitzgerald Engineering & Construction Co., Test Well 3, NW, of Long Beach, on Los Angeles River flood control levee 10 feet W. of tracks, 1,140 feet N. of 23rd St., Use: Not used. Casing: 8 inches. Perforated 143-145. | 897I | 31 | *x164 | (d) d | 12/ 9/30 | ----- | ----- | 70 | 866 | ----- |
| 3-127a-M-10 | Dominguez, NW, of Long Beach; 300 feet S. of Carson St., 1,000 feet W. of Los Angeles River. Use: Irrigation. Casing: 12 inches. Perforated S5 101, 110, 209. | 896 | 31 | *x230 | (d) d | Oct. 1929 12/ 9/30 | ----- | ----- | 275 *173 | 67 21 | ----- |
| 3-127b-M-10 | Jesus Cruz, S. of Compton; 70 feet S. of Dominguez St., 1,000 feet W. of P. E. Ry. along Los Angeles River. Use: Domestic. Casing: 12 inches. | 896A | 35 | x127 | (d) d d d | Oct. 1929 12/ 9/30 6/ 3/31 545 11/ 7/31 | 76.7 | ----- | 222 265 250 | 50 51 55 | ----- |
| 3-127c-M-10 | Owner unknown, S. of Compton; 60 feet N. of Dominguez St., 600 feet W. of Los Angeles River. Use: Domestic and stock. Casing: 12 inches. | 896B | 36 | x----- | (d) d d d | 10/17/29 12/ 9/30 6/ 8/31 548 11/ 7/31 | 37.7 | ----- | 176 233 174 183 | 28 51 25 27 | ----- |
| 3-127d-M-10 | H. E. Dickson, NW, of Long Beach; 0.35 mile E. of Santa Fe Ave. on S. line of 223d St. (Wilmington St.), 0.15 mile W. of west levee of Los Angeles River. Use: Not used since 4/24/30. Casing: 6 inches. | 897 | 28 | x----- | (d) d d | Oct. 1929 12/ 9/30 6/ 8/31 | ----- | ----- | 307 | 973 | ----- |
| 3-127e-M-10 | Bell Ranch, NW, of Long Beach; 575 feet N. of Wardlow St. at head of Fashion St., 0.38 mile E. of Peris Ave., 25 feet S. of new well. Use: Not used. Abandoned in 1928 on account of salt. Casing: 12 inches. | 897C | 27 | x----- | (d) d d | Oct. 1929 12/ 9/30 6/ 8/31 | ----- | ----- | 85 170 169 | 2,210 29 25 | ----- |
| 3-127f-M-10 | Bell Ranch, NW, of Long Beach; 600 feet N. of Wardlow St. at head of Fashion St., 0.38 mile E. of Peris Ave. Use: Irrigation. Casing: 16 inches. Perforated 80-400. | 897D | 27 | *x900 | (d) d d d | Oct. 1929 12/ 9/30 6/ 8/31 155 7/22/31 | 40.7 | ----- | 164 168 21 165 | 1,314 28 21 23 | 24 2 2 |
| 3-127g-M-10 | Fitzgerald Engineering & Construction Co., Test Well 2, NW, of Long Beach; 800 feet N. of Wardlow St., 2,500 feet E. of Santa Fe Ave. (Peris Ave.), 20 feet W. of dirt road extension of Pico Ave. Use: Test well for Oil Operators, Inc. Casing: 8 inches. Perforated 65-88. Sample on 11/17/31 was from surface of water. | 897H | 27 | *x200 | (d) d | 12/ 9/30 11/17/31 | ----- | 40.8 | 0.13 | 98 *543 | 4,460 4,260 |

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity (K x 10 ⁻³ at 25°C) | Constituents (parts per million) | | | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|----------------------------------|--|---|----------------------------------|----------------------------|-------------------------------------|--|---|----------------------------------|----------------------------------|-------------------------------------|----------------|
| | | | | | | | | Boron (ppm) | Percent sodium | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| B-127 M 10 | H. E. Dickson, NW. of Long Beach; 190 feet S. of 223d St., 0.1 mile N. of west levee of Los Angeles River. Use: Not specified. Casing: 6 inches. Samples on 11/17/31 were from surface of water and depth of 70 feet, respectively. | 897J | 28 | x71 | (4) (5) (6) (7) (8) | 12/9/30 6/23/31 11/17/31 11/17/31 | ..... ..... ..... ..... | a343 a223 a241 a321 | 53 67 78 78 | ..... ..... ..... ..... | ..... ..... ..... ..... | ..... ..... ..... ..... | ..... ..... ..... ..... |  |  |  |
| B-130 N 7 | Weston Ranch Well 5a, NW. of Wilmington; 40 feet N. of Redondo-Wilmington Blvd., 0.3 mile E. of Hawthorne Ave., 50 feet W. of draw, 20 feet W. of B-130b-N-7. Use: Irrigation. Casing: 14 inches. Perforated 405-425. | 250A | 148 | *x500 | 1588 | 11/30/32 | 111 | 0.31 | 461 | 126 | ..... ..... ..... ..... | ..... ..... ..... ..... | ..... ..... ..... ..... | ..... ..... ..... ..... |  |  |
| B-130b-N-7 | Weston Investment Co., Well 6, NW. of Wilmington; 25 feet E. of Madison St., 800 feet S. of Redondo-Wilmington Blvd. Use: Irrigation. Casing: 14 inches. Perforated 340-360. 410-415, 424-445, 470-500. | 250 | 170 | *500 | 237 | 8/10/31 | 103.4 | | 39 | 427 | 116 | 40 | 0 | 74 | 38 | 99 |
| B-131-N-8 | Los Angeles County Water District No. 13, Well 1, NW. of Wilmington; 25 feet E. of Cypress St., 300 feet S. of Redondo-Wilmington Blvd. Use: Municipal. | 271 | 150 | x..... | 167 (4) | 7/23/31 4/24/32 | 97.8 | | 60 | 406 376 | 123 135 | 2 | 0 | 38 | 23 | 130 |
| B-133 N 8 | Palo Verde Water Co., Well 1, W. of Wilmington; 200 feet N. of Anaheim St., 150 feet E. of P. E. Ry. Use: Municipal. Casing: 26 inches. Perforated 205-214, 332-610. | 301 | 50 | *x010 | 238 (4) | 8/19/31 11/5/31 | 68.8 | | 76 | 339 120 | 64 122 | 1 | 0 | 19 | 10 | 127 |
| B-133a N 8 | Palo Verde Water Co., Well 1A, W. of Wilmington; 200 feet N. of Anaheim St., 245 feet E. of P. E. Ry.; 170 feet E. of Well 1. Use: Municipal. Casing: 26 inches. Perforated 400-450. Samples on 11/10/31 and 2/8/33 were from depth of 175 feet and surface of water, respectively. | 301A | 50 | *x793 | 1504 (4) | 11/10/31 2/8/33 | 67.2 | 0.32 | | 110 239 | 86 69 | | | | | |
| B-134b O 8 | Royal Palms Golf Club, Well 2, S. of Wilmington; 0.25 mile N. of Channel St., 1,000 feet W. of Gaffey Ave. Use: Irrigation. Casing: 16 inches. L. A. D. of W. & P. No. 3-A-16. | 304 | 8 | x208 | (4) (5) (6) (7) 341 | 5/23/30 12/12/30 6/23/31 Dec. 1931 3/22/32 | 187 | 0.48 | 44 | 346 539 625 507 546 | 292 339 372 270 304 | 79 119 | 1 | 120 | 68 | 207 |
| B-133d O 8 | Royal Palms, Golf Club, Well 3, S. of Wilmington; 0.25 mile N. of Channel St., 1,200 feet W. of Gaffey Ave., 200 feet W. of Well 2. Use: Irrigation. L. A. D. of W. & P. No. 3-A-14. | 304B | 10 | 200 | (4) (5) (6) (7) 341 | 5/23/30 10/30/30 10/18/31 | 187 | 0.48 | 44 | 473 42 45 44 | 255 372 275 304 | 150 94 161 | 166 145 127 | 33 36 42 | 163 160 187 | |
| B-133d N 9 | Palo Verde Estates, Wilmington; 0.43 mile E. of Frigate Ave., 250 feet N. of W. Anaheim St., 0.65 mile N. of P. E. Ry. E. of Gaffey St. Use: Not used. Casing: 24 inches. Gravel 280-300, 314-318, 324-682, 730-762. Samples on 9/29/31 were from depths of 300 and 630 feet, respectively. | 312 | 30 | *x010 | (4) (5) (6) (7) 371 | Oct. 1929 12/12/30 6/23/31 7/20/31 9/29/31 | 605 1.32 1.30 602 | 0.48 | 44 | 373 384 413 674 | 419 625 902 1,722 | 119 | 1 | 120 | 68 | 207 |
| B-134 N 8 | Palo Verde Water Co., Well 1-B, Wilmington; 200 feet N. of Anaheim St., 600 feet S. of P. E. Ry., measured from point on P. E. Ry. 200 feet N. of Anaheim St. Use: Irrigation. Casing: 16 inches, in bottom of 71-foot pit. Perforated 300-345. | 311C | 45 | *500 | (4) | 11/1/32 | 82.9 | 0.47 | 69 | 357 | 97 | 1 | 0 | 29 | 14 | e133 |
| B-133i-N-9 | City of Los Angeles Limitus Well 4, W. of Wilmington; 0.56 mile W. from Frigate Ave. along L St., extended thence 0.12 mile S., 10 feet W. of angle in private road. Use: Municipal. Casing: 16 inches. | 311 | 20 | 716 | (4) 842 | 3/19/31 3/25/32 | 66.5 | 0.36 | 71 76 | 295 311 | 95 69 | 3 | 0 | 37 18 | 4 | e124 123 |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13. | 312A | 25 | 1,018 | (4) (5) (6) (7) 1031 | 10/15/29 11/15/29 1/6/30 2/28/30 4/28/30 | 10/30/30 | 0.36 | 80 88 90 91 90 | 510 466 460 453 453 | 450 445 445 460 495 | 17 1 1 7 10 | 25 36 25 30 31 | 14 7 10 4 11 | 437 e393 e444 e430 e438 | |
| B-133k N 9 | Union Oil Co., Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. | | | | | | | | | | | | | | | |

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|---|--|--|----------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | | | | | | | Specific electrical conductance ($K \times 10^3$ at 25°C) | Boron ppm | Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$ | Bicarbonate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Nitrate radicle (NO_3^-) | Calcium (Ca^{2+}) | Magnesium (Mg^{2+}) | Sodium (Na^+) |
| B-133m-N-8 | Louis Dallepi, NW of Wilmington; 600 feet S. of S St. (Loring Blvd.), 50 feet E. of Broadwell St. Use: Domestic. Casing: 7 inches. | 300 | 57 | 307 | (4) 11/12/31 1671 | 7/15/31 5/7/32 1/13/33 | 41.9 | 0.12 | 227 224 229 | 227 224 229 | 23 25 16 | 227 224 229 | 23 25 16 | 227 224 229 | 23 25 16 | 227 224 229 |
| B-133n-N-8 | (4) Lorensoni, NW of Wilmington; 100 feet W. of Broadwell St., 200 feet N. of 253d St. Use: Domestic. Casing: 6 inches. | 300A | 58 | 105 | (4) 10/30/32 1672 | Dec. 1931 5/10/32 1/13/33 | 102 | 0.19 | 310 310 310 | 310 310 310 | 160 173 173 | 160 173 173 | 160 173 173 | 160 173 173 | 160 173 173 | 160 173 173 |
| B-133o-N-9 | City of Los Angeles, Lomita Well 2, W. of Wilmington; 0.56 mile W. from Frigate Ave. along L St., extended, thence 0.12 mile S., thence 0.14 mile SW., 50 feet SE. of large building, near north edge of Bixby Slough. Use: Municipal. Casing: 16 inches. | 311B | 20 | 509 | (4) 2/26/32 | ..... | ..... | 50 | 336 336 336 | 60 60 60 | 12 12 12 | 1 1 1 | 73 73 73 | 1s 1s 1s | 73 73 73 | 12 12 12 |
| B-134-N-9 | Robert Tracy, Wilmington; 100 feet W. of Bayview Ave., 150 feet S. of Q St. Use: Domestic. Casing: 5 inches. | 320 | 38 | x110 | (4) 5/19 1673 | 6/23/31 1/13/33 | 43.1 74.0 | 0.09 | 209 223 250 | 209 223 250 | 32 34 0 | Tr. Tr. | 54 54 0 | 16 16 0 | 16 16 0 | 16 16 0 |
| B-134h-N-9 | City of Los Angeles, Wilmington Pumping Plant 1, Wilmington; 240 feet S. of Grant St., 90 feet N. of J St., 100 feet E. of Edbank Ave., 210 feet S. of Well 5. Use: Municipal. | 341E | 25 | 600 | ..... | ..... | ..... | ..... | 271 | 101 | Tr. | 0 | 14 | 9 | 145 | |
| B-135-N-9 | Consolidated Lumber Co., Wilmington; 500 feet W. of Badger Ave., 300 feet S. of Anaheim St., 12 feet E. of boiler house in Consolidated Lumber Co. yard. Use: Not used. Casing: 12 inches. Gravel 145-150; 162-169; 172-170. Samples on 9/29/31 were from depths of 150, 175 and 200 feet, respectively. | 351A | 12 | *x320 | (4) 12/12/30 | Oct. 1929 6/33 365 366 | 43.1 74.0 9/29/31 9/29/31 | 0.09 0.46 0.44 | 248 203 208 213 213 | 248 203 208 213 213 | 64 71 100 1,598 1,598 | 64 71 100 1,598 1,598 | 64 71 100 1,598 1,598 | 64 71 100 1,598 1,598 | 64 71 100 1,598 1,598 | 64 71 100 1,598 1,598 |
| B-135a-N-9 | Owner unknown, Wilmington; 100 feet S. of Grant St., 150 feet E. of Badger St. Use: Abandoned, filled in. Casing: Dug well. | 351 | 21 | x..... | (4) Oct. 1929 | ..... | ..... | ..... | 288 | 476 | ..... | ..... | ..... | ..... | ..... |  |
| B-135c-N-10 | Long Beach Salt Co. W. of Long Beach; 2,600 feet S. of Anaheim St., 3,200 feet E. of Badger Ave., 75 feet N.E. of U.P.R.R. tracks on W. side of Long Beach Salt Co. building. Use: Industrial. Casing: 4 inches. | 362 | 5 | x116 | (4) 10/28/30 6/12/31 2/27/31 | Oct. 1929 12/12/30 12/12/31 | ..... | ..... | 281 281 291 | 281 281 291 | 1,250 1,314 1,324 | 1,250 1,314 1,324 | 1,250 1,314 1,324 | 1,250 1,314 1,324 | 1,250 1,314 1,324 | 1,250 1,314 1,324 |
| B-135e-N-10 | Mexican tenants, W. of Long Beach; 0.13 mile S. of Anaheim St., 50 feet W. of dirt road to Long Beach Salt Co. plant (which is 0.67 mile W. of Santa Fe Ave.), between two Mexican cabins. Use: Domestic. Casing: 2 inches. L. A. D. of W. & P. No. 3-B-17. | 371 | 13 | 101 | (4) 6/12/30 10/28/30 12/12/30 2/27/31 | Oct. 1929 10/28/30 12/12/30 2/27/31 | ..... | ..... | 221 205 201 215 | 221 205 201 215 | 46 402 1,328 586 | 46 402 1,328 586 | 46 402 1,328 586 | 46 402 1,328 586 | 46 402 1,328 586 | 46 402 1,328 586 |
| B-135g-Q-10 | Southern California Edison Co. Ltd., W. of Long Beach on Terminal Island; 200 feet N. of U.P.R.R., 500 feet W. of Long Beach Harbor entrance. Between boiler and generator units. Use: Industrial. Casing: 14 inches. | 373A | 10 | 250 | ..... | 1806 | 2/15/33 | 1,025 | 351 | 3,106 | ..... | ..... | 331 | 331 | 331 | |

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA. Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance (K ₁₀ at 25°C) | Constituents (parts per million) | | | | | | | | |
|---------------|---|---------------------|-----------------------------|-------------------|---|--|--|--|---|---|--|--|--|--|--|
| | | | | | | | Boron ppm $\text{Na} \times 100$ $(\text{Ca} + \text{Mg}) + \text{Na}$ | Per cent sodium $(\text{Ca} + \text{Mg}) + \text{Na}$ | Bicarbonate ratio (HCO_3^-) | Chloride ratio (Cl^-) | Sulfate ratio (SO_4^{2-}) | Nitrate ratio (NO_3^-) | Calcium ratio (Ca^{2+}) | Magnesium ratio (Mg^{2+}) | Sodium ratio (Na^{+}) |
| B-136-N-10 | Pioneer Pacific Worsted Mills, Long Beach; 100 feet N. of 17th St., 25 feet E. of Nadeau Ave. Casing in shallow pump pit. Use: Not used. Casing: 14 inches. Gravel 75-92; 103-123; 135-250. City water passes through centrifugal pump to mills. Valve below pump keeps city water out of well. Sample on 9/28/31 was from depth of 80 feet. Samples on 10/5/31 were from depths of 55, 121, and 175 feet, respectively. L. A. D. of W. & P. No. 3-B-5. | 381 | 10 | *x250 | (e) Oct. 1929 Oct. 1929 | ----- ----- | ----- ----- | 84 85 65 65 73 80 | 170 155 167 167 174 176 | 43 50 28 30 34 32 | 27 42 18 30 12 16 | 12 16 16 19 18 16 | 2 0 7 5 5 0 | .04 .05 .58 .57 .58 .75 | |
| B-136d-N-10 | Long Beach Gas Co., Long Beach; 160 feet S. of S. P. R. R. 0.25 miles W. of Paris Ave., under manhole cover in driveway of Long Beach Gas Co. yard. 100 feet W. of meter shop. Use: Industrial. Casing: 10 inches. L. A. D. of W. & P. No. 3-B-20. | 381A | 10 | x137 | (e) 1/8/23 Oct. 1929 | ----- ----- | ----- ----- | 38 37 117 116 | 0.08 0.09 0.11 0.11 | 63 63 58 56 60 57 | 43 230 261 250 258 238 | 9 18 20 24 22 24 | 21 51 52 68 50 56 | 13 21 26 19 23 24 | .04 .170 .14 .146 .153 .140 |
| B-136h-N-10 | Southern California Edison Co., Ltd., Well 1, Long Beach; 600 feet S. of Anaheim St., 1500 feet E. of Perris Ave., S. of S. P. R. R. and E. of slough, near NW corner of Long Beach Gas Co. yard. Use: Industrial. Casing: 12 inches. Gravel 119-187. L. A. D. of W. & P. No. 3-B-18. | 381E | 10 | *x201 | (e) 1/8/23 1/6/30 3/17/30 4/28/30 6/5/30 10/28/30 11/14/30 2/11/31 3/20/31 7/23/31 | ----- ----- ----- ----- ----- ----- ----- ----- ----- 157 | 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18 | 61 50 47 56 56 71 61 65 50 | 233 226 226 238 238 223 223 236 238 | 40 234 244 265 265 250 228 228 227 251 | 49 17 30 26 26 20 22 22 22 16 | 27 66 66 68 68 64 54 48 50 61 | 11 25 32 22 22 16 18 16 53 45 | .02 .121 .14 .146 .153 .137 .147 .159 .201 .135 | |
| B-137-N-10 | Stewart Curtis Packers, Inc., Well 3, Long Beach; 300 feet E. of Channel 2, Long Beach Harbor, in yard of packing plant, 12 feet W. of B-137c-N-10. Use: Not used. Casing: 12 inches. Perforated 83-107. L. A. D. of W. & P. No. 3-B-22. | 392B | 11 | *x125 | (e) 6/5/30 | ----- | ----- | 76 | 255 | 7,300 | 972 | ----- | 619 | .04053 | |
| * B-137c-N-10 | Stewart Curtis Packers, Inc., Well 4, Long Beach; 300 feet W. of Pier St., 125 feet N. of 7th St., 312 feet E. of Channel 2, Long Beach Harbor, 12 feet E. of 61st B-137c-N-10, in yard of packing company. Use: Industrial. Casing: 20 inches. Perforated 87-109. L. A. D. of W. & P. No. 3-B-23. | 392C | 10 | *124 | (e) Oct. 1929 Oct. 1929 | ----- ----- | ----- ----- | 67 63 73 73 71 70 | 287 332 292 264 274 248 | 4,924 4,900 4,950 4,800 5,750 7,300 | 633 633 633 725 774 847 | 420 420 562 417 588 559 | 370 370 370 181 588 467 | .0437 .174 .173 .144 .3065 .3063 | |
| B-137-N-10 | Associated Oil Co., Seal Beach; 0.6 mile NE. of State Highway (Coast) bridge over San Gabriel River, 500 feet SE. of levee. Use: Not used. Casing: 8 inches. | 494A | 7 | x----- | (k) 11/10/30 1/26/31 3/2/31 3/20/31 6/18/31 7/28/31 | ----- ----- ----- ----- ----- ----- | ----- ----- ----- ----- ----- ----- | ----- ----- ----- ----- ----- ----- | ----- ----- ----- ----- ----- ----- | ----- ----- ----- ----- ----- ----- | ----- ----- ----- ----- ----- ----- | ----- ----- ----- ----- ----- ----- | ----- ----- ----- ----- ----- ----- | | |

C-910n-O-12 | Associated Oil Co., Seal Beach; 0.6 mile NE. of State Highway (Coast) bridge over San Gabriel River, 500 feet SE. of levee. Use: Not used. Casing: 8 inches.

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA *Continued*

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|----------------------|--|-----------|-----------------------------|-----------------|-------------------------------------|--|---|
| | | | | | | | Specific electrical conductivity ($K \times 10^{-4}$ at 25°C) | Boron ppm | Boron Na x 100 Ca + Mg + Na | Per cent sodium | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) |
| C-913c-N-11 | Peoples Ice Co., Long Beach; 100 feet N. of Anaheim St., 100 feet W. of head of Freeman Ave. in 32-foot pit near south entrance of engine room. Use: Industrial, but not for freezing. Casting: 5 inches. | 441 | 38 | x130 | (d) (e) (f) | Oct. 1929 12/9/30 | ..... | ..... | ..... | 208 179 | 394 205 | ..... | ..... |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 398 366 | 432 432 | ..... | ..... |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 308 305 | 437 437 | 53 54 | 0 Tr. |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 308 293 | 444 442 | ..... | ..... |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 183 146 | 458 464 | 3 3 | 0 58 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 113 113 | 513 504 | ..... | 37 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 110 113 | 474 504 | ..... | ..... |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 110 113 | 504 509 | 7 7 | 0 56 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 119 210 | 499 511 | ..... | 38 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 210 113 | 518 518 | 0 0 | 50 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | 0 0 | 0 0 | 75 75 | 50 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | 248 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | 248 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | 248 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | 248 |
|  |  |  |  |  |  |  | ..... | ..... | ..... | ..... | ..... | ..... | 248 |

* Log in files of Division of Water Resources.

† Water levels in files of Division of Water Resources.

‡ Includes small equivalent quantity of Carbonate (CO₃²⁻).§ Sulphate (SO₄²⁻) determined by turbidity method.

¶ Calcium (Ca) estimated by difference between sum of total radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

** Analysis by Los Angeles County Flood Control District, Los Angeles.

† Analysis by Standard Oil Co. of California.

‡ Analysis by City of Los Angeles, Department of Water and Power Laboratory; Carl Wilson, Director.

§ Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.

¶ Analysis by Smith-Emery Co., Los Angeles.

** Analysis by Arthur R. Maas Laboratories, Los Angeles.

† Analysis by City of Long Beach, Engineering Laboratory.

§ Analysis by Orange County Flood Control District, Santa Ana, California.

¶ Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 15. SURFACE WATERS IN REDONDO-LONG BEACH AREA

| Well number | Location and description | Elevation of ground | Discharge in second-foot | Laboratory number | Constituents (parts per million) | | | | | | | | | |
|-------------|---|---------------------|--------------------------|-------------------|----------------------------------|--|-----------|-------------------------------|---|-----------------------|------------------------------------|------------------------------------|----------------|-------------|
| | | | | | Date | Specific electrical resistance (K x 10 at 25°C.) | Boron ppm | Boron Na x 100 (Ca + Mg + Na) | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Magnesium (Mg) | Sodium (Na) |
| S897-M-10 | Los Angeles River, NW. of Long Beach. Sampled just below 23rd St. (Wilmington St.), opposite Oil Operators, Inc. Surface flow and industrial waste. | SS97 | 21 | 854 | 3/24/32 | 3,742 | 31.0 | 88 | 723 | 14,289 | 16 | 0 | 504 | 265 |
| S890-N-10 | Los Angeles River. W. of Long Beach, a little state Bridge. Surface flow. | SS90 | 8 | (4) | 10/26/32 | ..... | ..... | 61 | 312 | 332 | 291 | ..... | 94 | 40 |
| S824-M-9 | Nigger Slough, SF. of Gardena. Sampled at Main St. (Harbor Blvd.) crossing. Surface drift water. | SS24 | 11 | 872 | 4/11/32 | 482 | 3.45 | 75 | 314 | 1,314 | 264 | 0 | 103 | 89 |
| S835-M-9 | Nigger Slough, SF. of Gardena. Sampled at Avalon Blvd. Bridge. Nearly all industrial waste. | SS35 | 10 | 875 | 4/11/32 | 771 | 4.29 | 90 | 512 | 1,576 | 1,112 | 0 | 83 | 40 |
| S846-M-9 | Nigger Slough, NW. of Carson St., 0.4 mile E. of Avalon Blvd. 0.25 mile N. of Carson St., bridge 385, | SS46 | 15 | (d) | 3/12/32 | ..... | ..... | 88 | 0 | 1,440 | 623 | ..... | 77 | 31 |
| S860-N-10 | Nigger Slough, NW. of Long Beach. Sampled 150 feet N. of Alameda St. Bridge, which is 300 feet N. of Willow St. | SS69 | 10 | (d) | 2/27/32 | ..... | ..... | 68 | 123 | 201 | 209 | ..... | 46 | 19 |
| S1353-J-7 | Pan California Oil Co. Robert Bromberg, Receiver, Inglewood; 165 feet S. of Repent St., 453 feet W. of Prairie St. Oil well waste water. | S1353 | 150 | 1295 | 8/30/32 | 5,330 | 51.2 | ..... | 554 | 19,347 | ..... | ..... | ..... | ..... |

^a Includes small equivalent quantity of Carbonate (CO₃).^b Sodium 1,129 ppm. Potassium 644 ppm.^c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^d Analysis by City of Long Beach, Engineering Laboratory.

TABLE 16. WELLS IN SAN BERNARDINO AREA

| Well number | Location and description | Constituents (parts per million) | | | | | | | | | | | | | | |
|-------------|--|----------------------------------|-------------------|-------|---|---------------------|--|------------------------------------|--|-------------------------------------|---------------------------|------------------------|----|-----|----|----|
| | | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Boron ppm | Per cent sodium ($\text{Na} \times 100$ / $\text{Ca} + \text{Mg} + \text{Na}$) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) | | | | |
| D 1173 F 25 | Glen Helen Ranch, Well 2, NW of San Bernardino; 600 feet S.E. of Cajon Road, 0.65 mile SW of Old County Road, SW of A.T. & S.F. Ry.; 930 feet SW of Linden Ave., Casing: 12 inches. | 1,499B | 2,017 | 340 | 1309 | 9/ 2/32 | 46.1 | 0.04 | 22 | 182 | 11 | 52 | 2 | 39 | 22 | 24 |
| D 1182 F 26 | Fontana Union Water Co., F.U.W. Well 13, NW of San Bernardino; 10 miles NE of Riverside Ave. from point of 0.38 mile SE of Linden Ave. Use: Irrigation and domestic. Casing: 20 inches. Gravel 165-415. | 1,550 | *x551 | 620 | 1/ 5/32 | 22.5 | 0.02 | 21 | 122 | 4 | 10 | 2 | 28 | 7 | 7 | 13 |
| D 1183 F 26 | Musoy Mutual Water Co., Well 1, NW of San Bernardino; 0.24 mile N. of Cogden St., 0.35 mile W. of Gray St. Use: Domestic and irrigation. Casing: 20 inches. Perforated 69-302. | 1,493 | *x551 | 1324 | 9/ 2/32 | 47.3 | 0.12 | 14 | 235 | 7 | 39 | 1 | 64 | 15 | 16 | |
| D 1184 F 26 | Lyle Creek Water and Improvement Co., Upper Group New Well 4, NW of San Bernardino; 2,000 feet NE of Riverside Ave. from point 5,000 feet NW of bend 900 feet N. of Highland Ave. 30 feet SE. of Upper Group Old Well 4. Use: Irrigation. Casing: 20 inches. Perforated 600-630. | 1,475 | *x047 | 1322 | 9/ 2/32 | 30.1 | 0.05 | 17 | 168 | 2 | 16 | 1 | 44 | 8 | 13 | |
| D 1185 F 26 | Lyle Creek Water and Improvement Co., Lower Group Well 2, NW of San Bernardino; 3,000 feet N. of Riverside Ave. from point 1,900 feet, NW of bend, 900 feet N. of Highland Ave. Use: Irrigation. Casing: 20 inches. Perforated 104-186; 200-234-264-300; 300-390. | 1,410 | *x410 | 1323 | 9/ 2/32 | 20.3 | 0.07 | 16 | 164 | 2 | 17 | 1 | 43 | 7 | 12 | |
| D 1186 F 26 | Citizens Land and Water Co., Lord Well 6, NW of San Bernardino; 1,850 feet S. of Highland Ave., 2,560 feet E. of Euclid Ave. Use: Formerly irrigation, abandoned in 1925. Casing: 12 inches. Gravel 20-250-425-448. | 1,556 | *500 | (d) | Nov. 1918 | | | 19 | 156 | 9 | 12 | 4 | 46 | 6 | 15 | |
| D 1191 F 26 | Citizens Land and Water Co., Lord Well 1, NW of San Bernardino; 2,650 feet N. of Base Line Ave., 2,600 feet E. of Burdylips Ave.; Lord Well 2 is 150 feet W. and 20 feet N. Use: Irrigation and domestic. Casing: 20 inches. Perforated 218-250, 297-301, 311-324, 331-358; 350-435; 430-488; 478-508. | 1,575 | 1,260 | *x629 | (e) | 4 15.31 12 19.31 | 2.5 | 0.02 | 15 | 180 165 | 5 2 | 140 12 | 1 | 40 | 7 | 11 |
| D 1192 F 26 | Citizens Land and Water Co., Old Ferguson Well 1, NW of San Bernardino; 3,000 feet N. of Highland Ave., 200 feet E. of Syamore St., extended. Use: Formerly irrigation, not used. Casing: 20 inches. Gravel 120-488. | 1,578 | *x445 | (d) | Nov. 1918 | | | 21 | "11.4 | 5 | 14 | 3 | 44 | 7 | 17 | |
| D 1254 C 24 | Mr. Lester, SW of Cosy Dell; 050 feet E. and 320 feet N. of W. 1/4 corner, Sec. 12, T. 2 N., R. 6 W., S. B. & M. NW of Lost Lake, near Avenbrook. Use: Domestic. Well is very near San Andreas fault. | 1,0432 | 2,178 | 42 | (e) | 10/19/32 | 78.8 | 0.11 | 11 | 372 | 12 | 183 | 7 | 187 | 56 | 24 |
| D 1260 B 24 | Atchison, Topeka and Santa Fe Railway Co., Cajon; 50 feet S. of A.T. & S.F. Ry. 100 feet E. of Cajon Creek, 1,375 feet N. of water tanks at Cajon Station. Use: Boiler feed and domestic—treated for boiler use. Casing: 15½ inches. | 2,0439 | 2,960 | 74 | 1304 | 9/ 2/32 | 71.0 | 0.05 | 27 | 360 | 12 | 64 | 4 | 78 | 26 | 51 |
| E 11 F 27 | City of San Bernardino, Devil's Canyon Well 4, NW of San Bernardino; 4,250 feet NE. of Belmont Ave. along Pine Ave., extended 1,550 feet S.E. of Pine Ave. produced 50 feet N. offence at mouth of Devil's Canyon, 150 feet N. of Devil's Canyon Well 3. Use: Min. 1 gal. Casing: 8-foot riser. | 1,9569 | 1,891 | x50 | 1308 | 9/ 1/32 | 59.3 | 0.02 | 10 | 308 | 9 | 57 | 1 | 4 | 22 | 15 |
| E 4b F 27 | W.L. Wiggins, NW of San Bernardino; 100 feet E. of California Ave., 400 feet S. of Darby St. Use: Irrigation and domestic. Casing: 12 inches. | 1,8765 | 1,296 | x225 | 617 | 12/19/31 | 41.9 | 0.03 | 13 | 232 | 6 | 25 | 2 | 50 | 15 | 14 |
| E 5c F 27 | Mt. Vernon Water Co., W. of San Bernardino; 75 feet S. of Highland Ave., 0.13 mile W. of California Ave., E. well of two 150 feet apart. Use: Irrigation. Casing: 20 inches. Perforated 225-308; 348-375; 382-422; 462-532. | 1,250 | *x508 | 1,325 | 9/ 2/32 | 45.6 | 0.08 | 14 | 238 | 7 | 39 | 1 | 62 | 14 | 15 | |
| E 9b F 27 | Citizens Land and Water Co., Raynor Well, W. of San Bernardino; 600 feet S. of Base Line Ave., 0.9 mile E. of Pepper Ave., near center of Lytle Creek Wash. Use: Abandoned. | 1,8767 | 600 | (d) | Nov. 1918 | | | 14 | "17b | 6 | 17 | 3 | 42 | 8 | 10 | |
| E 71 F 27 | Citizens Land and Water Co., New Raynor Well 4, W. of San Bernardino; 400 feet S. of 9th St., 1,300 feet E. of Pepper Ave., 12 feet N. of Old Raynor Well 4. Use: Irrigation. | 1,8768B | 1,160 | 1,326 | 9/ 2/32 | 44.9 | 0.07 | 10 | 235 | 11 | 35 | 2 | 68 | 12 | 11 | |

TABLE 16. WELLS IN SAN BERNARDINO AREA Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^{-10}$ at 25°C) | Boron ppm | Percent sodium carbonate ($\text{Ca} + \text{Mg} + \text{Na}$) | Constituents (parts per million) | | | | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|--------------------|--|--------------|--|------------------------------------|--|-------------------------------------|--|----------|----------|----------|-----|
| | | | | | | | | | Chloride radicle (Cl^-) | Bicarbonate radicle (HCO_3^-) | Nitrate radicle (NO_3^-) | Sulfate radicle (SO_4^{2-}) | | | | |
| E-10-E-27 | City of San Bernardino, Newmark Well, N. of San Bernardino; 300 feet N. of A St., 0.49 mile W. of Third Ave. Use: Municipal and irrigation. Casing: 24 inches. | 1,413 | x410 | 614 | 12/17/31 9/1/32 | 34.8 35.6 | Tr. 0.08 | 12 11 | 204 204 | 6 9 | 12 12 | 2 2 | 51 51 | 11 10 | | |
| E-15a-G-27 | Terrace Water Co., W. of San Bernardino; 2,720 feet W. of Mt. Vernon Ave., 220 feet N. of Ritaio Ave. Use: Irrigation. Casing: 16 inches. | 1,8773 | - | x446 | (d) 1411 | Aug. 10/19 9/21/32 | 41.3 - | 0.02 - | 18 9 | 180 217 | 8 5 | 45 31 | 0 2 | 49 61 | 10 12 | |
| E-15b-G-27 | Barnhill Mutual Water Co., W. of San Bernardino; 242 feet W. of and 275 feet S. of NE. corner of Lot 20, Block 25, San Bernardino Ranchos. Use: Abandoned in 1922. Casing: 12 inches. | 1,8779A | - | 150 | \|\| | (v) Aug. 19/19 | - | - | 47 | 104 | 6 | 45 | 0 | 22 | 6 | |
| E-23-G-27 | Southern California Ice Co., Well 1, San Bernardino; 160 feet W. of I St., 250 feet N. of 3d St., 97 feet W. of engine house well. Use: Ice plant and domestic. Casing: 16 inches. Perforated 130, 162, 180, 189, 250, 260, 320, 376. | 1,8799 | 1,069 | *x384 | (v) 13/19 | Aug. 10/27 9/1/32 | 46.2 - | 0.05 - | 43 15 | 250 247 | 7 9 | 90 13 | 2 2 | 48 63 | 13 14 | |
| E-24-F-28 | Mrs. A. L. Hurtt, N. of San Bernardino; 0.9 mile N. of Willow Nook Road, 20 feet W. of Arrowhead Drive, 240 feet N. of 53d St. Inside of rock house. Use: Domestic and irrigation. | 1,8812 | 1,483 | x71 | (d) (e) | Feb. 10/19 6/13/31 | 37.2 - | 0.13 - | 15 28 | 128 192 | 24 11 | 71 19 | 17 2 | 24 46 | 34 6 | |
| E-29-G-28 | City of San Bernardino, Hanford Well 1, San Bernardino; 0.13 mile N. of Baltic Ave., 0.16 mile E. of F St., 20 feet S. of 2d St., 140 feet E. of D St., 15 feet S. of pump house in yard of Water Department. Use: Municipal. Casing: 16 inches. | 1,8809A | 1,028 | x736 | (v) 4/15/31 | - | - | - | 192 | 7 | b27 | - | - | - | - | |
| E-34a-G-28 | City of San Bernardino, Hanford Well 2, San Bernardino; 60 feet E. of D St., 170 feet S. of 2d St., In yard of Water Department. Capped and flows to covered concrete reservoir at Well 1. Use: Municipal. | 1,8809A | - | x1,200 | (v) 13/10 | 1/23/31 9/1/32 | 31.1 29.3 | 0.17 0.22 | 57 68 | 116 113 | 14 16 | 22 24 | 0 | 19 14 | 3 4 | |
| E-34-G-28 | T. J. S. Clapp, NE. of San Bernardino; 600 feet N. of 40th St. (Willow Nook Road); 0.51 mile E. of Valencia Ave. Use: Irrigation. Casing: 16 inches. Perfected 240-244. | 1,8833A | - | *x294 | \|\| | 13/13 | 9/1/32 | 55.5 | 0.56 | 64 | 146 | 23 | 91 | 1 | 27 | 8 |
| E-36a-F-28 | City of San Bernardino, Perris Hill Well 3, San Bernardino; 200 feet S. of Highland Ave., 1,300 feet E. of Waterman Ave. Use: Municipal. Casing: 20 inches. Perfected 102-14N; 156-202. | 1,8826A | 1,165 | *x265 | \|\| | 13/11 | 9/1/32 | 39.1 | 0.20 | 37 | 137 | 12 | 56 | 10 | 35 | 9 |
| E-38-G-28 | City of Riverside, Benson Tract, Well F, E. of San Bernardino; 1,810 feet E. of Waterman Ave., 1,040 feet N. of 6th St. Use: Municipal. Casing: 10 inches. | 1,8828 | 1,048 | x520 | \|\| | (v) 1/23/31 | 35.4 | 0.01 | 1 | 198 | 4 | 10 | - | 50 | 12 | 1 |
| E-39-G-28 | City of Riverside, Well C, E. of San Bernardino; 1,400 feet E. of Waterman Ave., 50 feet S. of 6th St., on E. bank of Warm Creek. Use: Municipal. Casing: 10 inches. | 1,8829A | 1,040 | x546 | (v) (v) | 1/23/31 4/18/31 | 37.3 | Tr. 0 | 0 | 201 207 | 4 8 | 11 b20 | - | 52 | 13 | Tr. |
| E-39c-G-28 | City of Riverside, Well D, E. of San Bernardino; 1,475 feet N. of Waterman Ave., 950 feet E. of Waterman Ave., on E. edge of Warm Creek. Use: Municipal. Casing: 10 inches. | 1,8829B | - | 557 | (v) (v) | 1/23/31 4/18/31 | 35.6 | 0.02 | 14 | 180 183 | 4 | 13 10 | - | 43 | 8 | 11 |
| E-39b-G-28 | City of Riverside, Well E, E. of San Bernardino; 2,160 feet E. of Waterman Ave., 910 feet N. of 3d St., 750 feet E. of Warm Creek. Use: Municipal. Casing: 10 inches. | 1,8829C | - | 550 | (v) (v) | 1/23/31 4/18/31 | 34.5 | Tr. - | - | 177 193 | 2 9 | 12 b15 | - | 45 | 5 | e13 |
| E-39c-G-28 | City of Riverside, Fraizer Well. San Bernardino; 1,260 feet N. of 3d St., 950 feet E. of Waterman Ave. Use: Municipal. Casing: 10 inches. | 1,8829D | 1,026 | x913 | (v) (v) | 1/23/31 4/18/31 | 36.1 | 0.03 | 4 | 186 193 | 4 | 10 b30 | - | 46 | 11 | 3 |
| E-39d-G-28 | City of Riverside, Well A, E. of San Bernardino; 300 feet N. of 3d St., 200 feet E. of Waterman Ave., 75 feet S. of Warm Creek. Use: Municipal—artesian flow. Casing: 10 inches. | 1,8829E | 1,034 | x933 | (v) 1/23/31 | 33.2 | Tr. | 42 | 125 | 12 | 23 | - | 29 | 6 | 34 | e29 |
| E-39e-G-28 | City of Riverside, Well B, E. of San Bernardino; 250 feet N. of 3d St., 1,110 feet E. of Waterman Ave., 270 feet S. of Warm Creek and 220 feet NE. of City Creek. Use: Municipal. Artesian flow. Casing: 10 inches. | 1,8838A | - | x1,410 | (v) (v) | 4/7/31 4/15/31 | 36.2 | Tr. - | - | 58 55 | 125 125 | 44 12 | - | 25 | 4 | e46 |
| E-42a-G-28 | City of San Bernardino, Antelope Basin Well 5, E. of San Bernardino; 300 feet N. of 6th St., 0.3 mile W. of Stiles St. Use: Municipal. Casing: 16 inches. | 1,8838A | - | 616 | 12/17/31 | 34.8 | 0.05 | - | 56 57 | 127 125 | 44 12 | Tr. 1 | 25 | 3 | 47 | 47 |

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Boron ppm | Percent sodium Na $\times 100$ Ca + Mg + Na | Constituents (parts per million) | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|-------------------|--|--------------|---|---|-----------------------|------------------------------------|------------------------------------|----------------|-------------|
| | | | | | | | | | | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Magnesium (Mg) | Sodium (Na) |
| E-42h-G-28 | City of San Bernardino Antil Basin Well 1, E. of San Bernardino; 530 feet N. of E. 6th St., 0.45 mile W. of Stiles St. Use: Municipal—artesian. Casing: 12 inches. Gravel 170–196; 206–224; 232–260; 420–428; 456–614. | 18838H | ..... | *614 | (f) | 4/15/31 | 34.8 12/17/31 9/1/32 | 0.01 0.26 | 10 24 | 146 195 189 | 9 7 7 | 48 16 18 | 9 45 1 | 17 21 | |
| E-43-G-28 | Waterman Ranch, E. of San Bernardino; 0.30 mile W. of Tippecanoe St., 50 feet S. of Cadiff St. Use: Irrigation. Casing: 10 inches. Perforated 574–976, 1092–1147. | 18839 | 1,051 | *x1147 | 1413 | 9/21/32 | 34.1 | 0.03 | 47 | 137 | 18 | 27 | 1 | 29 | 4 |
| E-43b-G-28 | Mr. Davis, E. of San Bernardino; 300 feet W. of Stiles St. (Tippecanoe St.) 20 feet N. of 3d St., 20 feet S. of City Creek. Use: Irrigation. Casing: 10 inches. | 18839B | 1,063 | x..... | (e) | 4/9/31 | 27.9 9/21/32 | 0.06 | Tr. 0.06 | 40 39 | 134 134 | 4 5 | 22 20 | -1 1 | 25 27 |
| E-44f-F-28 | H. F. Bushboom, NE. of San Bernardino; 400 feet N. of Olive St., 400 feet W. of Mountain Ave. Use: Irrigation. Casing: 12 inches. | 18845B | ..... | 231 | ..... | 1316 | 9 / 1/32 | 56.4 | 0.66 | 54 | 143 | 21 | 102 | 11 | 37 |
| E-44g-E-28 | Lady Margaret Sharp, NE. of San Bernardino; 1,600 feet N. of 40th St. (Willow Nook Road) 600 feet W. of Mountain Ave., extended S. of swimming pool. Use: Irrigation and domestic. Casing: 4' x 4 dug well. | 18842 | 1,550 | ..... | ..... | 1425 | 9/22/32 | 37.0 | 0.42 | 58 | 125 | 14 | 42 | 1 | 23 |
| E-45b-F-28 | George M. Cooley, NE. of San Bernardino; 10 feet W. of Del Rosa Ave. at turn east, 0.25 miles S. of Highland Ave. Use: Irrigation. Perfected 75 s ₅ . | 18846B | 1,150 | x124 | ..... | 2/28/33 | 50.6 | 0.31 | 39 | 131 | 27 | 98 | 27 | 44 | 14 |
| E-46-F-28 | A. Osburn, E. of San Bernardino; 200 feet N. of Base Line Ave., 0.1 mile E. of Del Rosa Ave. Use: Irrigation and domestic. Casing: 3 inches. | 18857D | 1,098 | x165 | ..... | 1317 | 9 / 1/32 | 45.3 | 0.26 | 61 | 156 | 18 | 41 | 27 | 24 |
| E-46L-F-28 | A. Osburn, E. of San Bernardino; 500 feet N. of Base Line Ave., 1,000 feet W. of Sterling St. Use: Irrigation. Casing: 12 inches. Gravel 340–408; 424–432; 460–478; 488–500; 520–628. | 18857F | ..... | *628 | ..... | 1318 | 9 / 1/32 | 63.4 | 0.37 | 22 | 116 | 36 | 150 | 1 | 81 |
| E-46n-F-29 | J. Doliner, E. of San Bernardino; 100 feet N. of Base Line Ave., 400 feet E. of Sterling St. Use: Domestic and irrigation. Casing: 12 inches. | 18857G | 1,105 | 470 | ..... | 10/20/32 | 62.6 | 0.71 | ..... | ..... | ..... | ..... | ..... | ..... | 34 |
| E-48-G-28 | M. C. Freitas, E. of San Bernardino; 100 feet S. of 3d St., 0.43 mile W. of Sterling St. Use: Domestic. Casing: 6 inches in 20-foot pil. Open bottom casing. | 18849 | 1,092 | 50 | ..... | 1412 | 9/21/32 | 29.8 | 0.04 | 22 | 134 | 5 | 13 | 11 | 32 |
| E-49-F-29 | West Highlands Water Co., E. of San Bernardino; 20 feet S. of Highland Ave., 0.09 mile W. of Victoria St. In corrugated iron pump house. Use: Irrigation. Casing: 18 inches. Gravel 180–224. | 18876 | 1,267 | *x224 | (d) | Oct. 1918 | ..... | ..... | ..... | 24 | 128 | 10 | 15 | 13 | 27 |
| E-49a-F-29 | East Highland Orange Co., NE. of San Bernardino; 495 feet N. of Pacific St., 40 feet W. of Orange St. Use: Domestic. | 18866 | ..... | ..... | (e) | 10/29/26 | ..... | ..... | ..... | 39 | 232 | 16 | 25 | ..... | 43 |
| E-49d-F-29 | Patton State Hospital, W. of Highland; 150 feet S. of Highland Ave., 0.16 mile W. of Central Ave. Use: Irrigation and domestic. Casing: 18 inches. Perfected 150–326. | 18876A | 1,285 | *x351 | ..... | 9/23/32 | 40.9 | 0.08 | 44 | 177 | 16 | 53 | 13 | 32 | 10 |
| E-50c-F-29 | East Highland Orange Co., E. of San Bernardino; 600 feet S. of Pacific St., 40 feet W. of Orange St., extended south, 20 feet E. of new well drilled March 1931. Use: Formerly irrigation; abandoned February, 1931. Casing: 12 inches. Gravel 120–160–230–250–304–291. | 18867 | 1,148 | *x752 | (e) | 10/29/26 | ..... | ..... | ..... | 39 | 146 | 32 | 136 | ..... | 61 |
| E-50h-F-29 | Hadlem Springs Resort, E. of San Bernardino; 50 feet E. of Victoria St., 0.12 mile N. of Base Line Ave. Use: Domestic. Casing: 7 inches. Open bottom casing, no perforations. | 18877D | 1,144 | 238 | (e) | 4/6/31 9/22/32 | 27.3 28.3 | 0.02 0.06 | 74 77 | 122 125 | 7 5 | 17 10 | 11 11 | 10 12 | 2 |
| E-50m-F-29 | Base Line Laundry, E. of San Bernardino; 800 feet N. of Base Line Ave., 0.68 mile E. of Sterling St. Use: Laundry. | 18867G | 1,125 | ..... | (e) | 4 / 4/31 | 38.4 | 0.25 | 78 | 116 | 16 | 55 | ..... | 11 | 3 |
| E-51a-G-28 | A. Gregory, E. of San Bernardino; 0.10 mile N. of 6th St., 0.35 mile E. of Sterling St. Use: Irrigation. Casing: 14 inches. Perfected 153–165, 361–479; 391–411; 466–494; 495–504. | 18868 | 1,092 | *523 | ..... | 9/23/32 | 22.5 | 0.08 | 28 | 110 | 5 | 7 | 6 | 27 | 1 |
| E-53-F-29 | J. D. Boley, NW. of Highland; 0.62 mile N. of Highland Ave., 800 feet W. of Victoria St. Use: Irrigation. Casing: 16 inches. Perfected 280–425, 478–498. | 18875 | 1,398 | *615 | (e) | 12/15/31 | 39.6 | 0.13 | 44 | 144 | 18 | 55 | 5 | 30 | 10 |

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Boron ppm | Percent sodium Na $\times 100$ [$\frac{Ca+Mg}{Na}$] | Constituents (parts per million) | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|----------------------|--|--------------|---|----------------------------------|---------------------------------|-----------------------------|------------------------------|-------------|--------|------|----|
| | | | | | | | | | | Bicarbonate (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Nitrate radicle (NO_3^-) | Sodium (Na) | | | |
| E 54 F 29 | Corwin Well Co., Highland, 20 feet S. of Atlantic Ave., 0.27 mile W. of Boulder Ave. Use: Irrigation. Casing: 20 inches. Perforated 306 348; 352-471. | 18896 | 1,410 | *x513 | 1423 | Aug. 1930 9/22/32 | 34.0 | 0.23 | 71 | 140 | 14 | 20 | 6 | 16 | 3 | 58 | |
| E-54c-F-29 | Thompson Brothers and Bear Valley Water Co., Barnes Well, NW of Highland; 40 feet N. of Highland Ave., 0.12 mile W. of Palm Ave. Use: Irrigation. Casing: 20 inches. Perforated 244-254; 266-420; 471-490. | 18896A | 1,376 | *515 | (*) | 4/29/31 8/4/31 | 40.6 42.9 | 0.18 0.16 | 61 68 | 149 165 | 14 20 | 32 60 | 23 3 | 5 | 55 | | |
| E-55a-F-30 | American States Water Service Co., City Creek Highland Plant 1, Well 2, NE of Highland; 0.26 mile E. of City Creek Road, 300 feet N. of Highland Ave. Use: Domestic. | 18906A | 1,498 | 308 | (*) | 4/25/30 | 59.9 | 1.03 | 86 | 122 | 20 | 83 | 9 | 2 | 71 | | |
| E-55b-F-29 | Highland Well Co., NE of Highland; 115 feet N. of Highland Ave., 690 feet E. of City Creek. Use: Irrigation. | 18906 | 1,473 | 72 | (d) | Oct. 1918 | ----- | ----- | 24 | 122 | 10 | 21 | 2 | 28 | 8 | e15 | |
| E-55c-F-29 | American States Water Service Co., City Creek Highland Plant 1, Well 1, NE of Highland; 60 feet N. of Highland Ave., 0.25 mile E. of City Creek Road, W. of reservoir. Use: Domestic and irrigation. | 18906C | 1,492 | ----- | ----- | 1422 | 9/22/32 | 48.1 | 0.46 | 51 | 162 | 16 | 60 | 18 | 32 | 10 | 58 |
| E-55d-F-29 | Base Line Well Co., SE of Highland; 50 feet N. of Base Line Ave. between branches of City Creek, 0.13 mile E. of Boulder Ave. Use: Irrigation. Perforated 56 68; 150-175. | 18907A | ----- | *352 | 1419 | 9/22/32 | 28.3 | 0.08 | 30 | 122 | 7 | 10 | 9 | 28 | 8 | 21 | |
| E-59d-G-30 | J. D. Langford, East Highland; 400 feet N. of 3d St., 600 feet E. of Orange St. Use: Irrigation. Casing: 18 inches. Perforated 175-292. | 18918A | 1,265 | *305 | 1418 | 9/22/32 | 26.1 | 0.05 | 27 | 113 | 7 | 9 | 9 | 27 | 7 | 16 | |
| E-60a-F-30 | Mr. Seely, E. of Highland; 50 feet W. of Church St., 1,300 feet N. of Base Line Ave. Use: Domestic and irrigation. Drilled to replace shallow well 20 feet away. | 18927 | 1,555 | 506 | (*) | 8/5/31 | 29.2 | 0.05 | 50 | 143 | 7 | 21 | 10 | 23 | 6 | e36 | |
| E-61c-G-30 | East Highlands Domestic Water Co., Edward Well, East Highland; 550 feet S. of Santa Ana Canyon Road, 25 feet W. of University St., 130 feet N. of Sycamore Drive. Use: Domestic. | 18938 | ----- | ----- | (d) | Oct. 1918 9/22/32 | 23.8 | 0.06 | 14 | 92 107 | 10 5 | 10 8 | 0 9 | 20 24 | 6 6 | 16 | |
| E-62a-G-30 | Dr. E. W. Burke, et al., E. of East Highland; 0.25 mile N. of Santa Ana Canyon Road, 1.0 mile E. of Weaver St., 0.2 mile S. of mouth of Plunge Creek. Use: Irrigation. Casing: 24 inches. Perforated 250-308; 320-348. | 18958 | ----- | *x375 | 1421 | 9/22/32 | 25.3 | 0.08 | 30 | 119 | 7 | 14 | 2 | 25 | 8 | 18 | |
| E-63b-G-31 | East Highlands Orange Co. and W. V. Ranney, NE. of Redlands; 4,000 feet W. of intersection of Greenspot Road, 1,400 feet S. of Santa Ana Canyon Road. Use: Irrigation. Casing: 24 inches. Perforated 262-340; 344-458. | 18969 | ----- | *460 | 1414 | 9/22/32 | 23.2 | 0.04 | 29 | 110 | 4 | 14 | 3 | 24 | 6 | 16 | |
| E-64b-G-31 | North Fork Water Co., New Well, NE. of Redlands; 100 feet N. of Santa Ana Canyon Road, 150 feet W. of Greenspot Road, 0.5 mile W. of mouth of Santa Ana Canyon. S. one of two wells. 1 sec. Irrigation. Casing: 24 inches. Perforated 65-162, 165-287. | 18980A | 1,810 | *x267 | 1415 | 9/22/32 | 36.1 | 0.06 | 30 | 152 | 5 | 38 | 4 | 38 | 9 | 26 | |
| E-65-G-31 | Western Fruit Co., NE. of Mentone; 0.22 mile E. from intersection of Greenspot Road and Newport Ave., thence 1.05 mile N. and thence 0.2 mile NW. Well is in canyon 400 feet NE. of this point. Use: Irrigation. Casing: 20 inches. Perforated 24-130; 130-260. | 19009 | 2,060 | *357 | 1417 | 9/22/32 | 54.4 | 0.08 | 21 | 232 | 16 | 63 | 2 | 58 | 19 | 27 | |
| E-78-G-27 | City of Colton, Highline Well 8, N. of Colton; 175 feet S. of Rioja Ave., 0.52 mile W. of Mt. Vernon Ave. Use: Municipal. Casing: 14 inches. | 17970C | ----- | x640 | (*) | 4/16/31 | ----- | ----- | ----- | 208 | 8 | 35 | ----- | ----- | ----- | 33 | |
| E-54c-G-27 | City of Colton, New Well 12, San Bernardino; 350 feet N. of Mill St.; 50 feet E. of Mt. Vernon Ave. Use: Municipal. Casing: 40 inches. Perforated 538-608. | 17980 | 1,063 | *x304 | (*) | 3/29/31 4/16/31 | 37.2 | 0.01 | 34 | 207 21 | 5 | 34 8 | 43 | ----- | ----- | 43 | |
| E-58b-G-27 | De Siena Mission Hot Springs, Hot Well, San Bernardino; 310 feet S. and 20 feet W. of center line of private road extending southward to Colton Ave. from junction of K St. and Hillcrest Ave. Use: Swimming baths. Casing: 12 inches. Perforated 304-318; 376-386; 470-485; 502-520; 522-544. | 17991 | 1,035 | *547 | (*) | 4/24/30 | 59.9 | 1.65 | 82 | 220 | 99 | 5 | ----- | 21 | 1 | e123 | |

TABLE 16. WELLS IN SAN BERNARDINO AREA. Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^{-3}$ at 25°C) | Boron ppm | Constituents (parts per million) | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|---|---|--|---|---|--|---|---|---|---|----------------|
| | | | | | | | | | Percent sodium Na x 100 Ca + Mg + Na | Boronate radicle (HCO ₃) Na x 100 Ca + Mg + Na | Chloride radicle (Cl) Na x 100 Ca + Mg + Na | Sulfate radicle (SO ₄) Na x 100 Ca + Mg + Na | Nitrate radicle (NO ₃) Na x 100 Ca + Mg + Na | Magnesium (Mg) Na x 100 Ca + Mg + Na | Sodium (Na) Na x 100 Ca + Mg + Na | |
| E 93e-G-27 | De Siena Mission Hot Springs, Cold Well, San Bernardino; 370 feet S. and 20 feet W. of private road extending southward to Colton Ave. from junction of K St. and Hillcrest Ave. Use: Domestic. Artesian well. Bubbles rise through water. | 17991A | 1,025 | 200 | (e) | 4/ 3/31 | 35.9 | 0.02 | 43 | 214 | 7 | 25 | 40 | 5 | 42 | |
| E 93d-G-28 | Meeks and Daly Water Co., S. of San Bernardino; 0.7 mile S. of Mill St., 100 feet W. of E. St. Use: Irrigation. Casing: 20 inches. Perforated 34-34-52-572. Sample on 8/13/31 is composite above 450 feet, on 8/27/31 above 440 feet, (new gravel at 480 feet), on 9/23/31 above 524 feet, on 9/11/31 above 562 feet (new 12-foot gravel stratum), on 9/16/31 above 580 feet, on 10/28/31 above 580 feet (new 12-foot gravel stratum) on 9/16/31 above 580 feet, on 10/28/31 and 1/11/32 pump discharge 5 and 7 second feet, respectively. | 18001B | 980 | *603 | (e) | 8/13/31 9/27/31 9/11/31 9/16/31 9/23/31 9/16/31 10/28/31 1/11/32 | 41.0 40.8 37.3 40.7 33.0 40.4 39.0 40.6 | 0.07 0.21 0.20 0.12 0.15 0.37 0.39 0.44 | 16 26 58 28 51 171 189 176 | 238 210 174 207 9 171 16 21 | 7 7 16 9 4 16 16 24 | Tr. 0 0 1 22 Tr. Tr. Tr. | 57 47 28 1 30 40 36 | 12 9 3 1 10 7 7 7 | 117 52 26 39 39 29 36 38 | |
| E 93j-G-27 | Urbita Hot Springs, S. of San Bernardino; 0.45 mile SW. of intersection of Colton Ave. and E. St., 600 feet SE. of Colton Ave. Use: Flowing well discharging into Lake. Casing: 4 inches. Gravel 90-152; 1-8-250; 276-302. | 18001D | 1,000 | *368 | (e) | 4/ 4/30 | 41.7 | 0.05 | 26 | 256 | 5 | 14 | ----- | 54 | 9 | 28 |
| E 93p-G-28 | Gregory and Langford, S. of San Bernardino; 50 feet W. of Arrowhead Ave., 0.7 mile S. of Mill St. Use: Irrigation and domestic. Casing: 10 inches. | 18001F | ----- | ----- | (e) | 9/2/31 9/16/31 | 45.2 45.7 | 1.03 1.01 | 72 69 | 171 168 | 46 44 | 22 20 | 0 0 | 22 22 | 2 | 76 71 |
| E 94a-H-27 | City of San Bernardino, S. of San Bernardino; 850 feet W. of E. St., 2400 feet N. of Colton Ave. Use: General, at sewage disposal plant. Perforated above plug at 150 feet. | 18002 | 972 | 300 | (e) | 6/13/31 | 51.9 | 0.62 | 62 | 140 | 60 | 33 | Tr. | 32 | 3 | 71 |
| E 94b-H-28 | City of Riverside, Paine Well, S. of San Bernardino; 590 feet S. of Dumas Drive, 7670 feet W. of Waterman Ave. Use: Scott's laundry without additional heating. | 180112 | 1,007 | ----- | (d) | Mar. 1930 | ----- | ----- | 67 | 105 | 78 | 27 | ----- | 12 | 11 | 71 |
| E 94c-H-28 | City of Riverside, Byrne Tract Well, S. of San Bernardino; 50 feet S. of Dumas Drive, extended 2675 feet W. of Waterman Ave. Use: Municipal. Casing: 20 inches. Perforated 645-657; 673-681; 778-789; 851-873; 879-885; 907-943; 973-1014; 1015; 1035; 1063 1074; 1091-1125. | 180112B | 997 | *350 | (e) | 6/17/31 2/4/31 3/26/31 | 48.8 47.4 46.8 | 1.52 1.66 1.48 | 65 88 87 | 95 95 98 | 75 73 73 | 26 27 18 | ----- | 8 7 8 | 13 1 2 | 63 85 84 |
| E 94d-H-28 | Riverside Water Co., New Thorn Tract Well, S. of San Bernardino; 1700 feet S. of Dumas Drive, 150 feet W. of Waterman Ave. Use: Irrigation. Casing: 20 inches. Perforated 64-108; 150-180; 182-182-210-214; 228-236. Sample on 6/7/31 bailed from 90-foot depth while drilling, on 6/10/31 coarse gravel at 150-160 with slight flow, and on 6/13/31 coarse gravel at 220-236 with slight flow. Gravel again encountered at 334-340 but casing was not cut. | 180113B | 990 | *400 | (d) | 3/30/26 | ----- | ----- | 42 | 207 | 36 | 53 | ----- | 42 | 13 | 53 |
| E 94e-H-28 | Mrs. M. L. Hunt, Well 3, E. of Colton; 245 feet E. of Hunt Ave., 900 feet S. of Colton Ave. One of four flowing wells around small reservoir. Use: Irrigation. Casing: 10 inches. Gravel 90-108; 116-130. | 180113C | 1,015 | 538 | (e) | 1/30/31 4/18/31 | 40.9 | 0.40 | 69 | 137 144 | 34 34 | 32 142 | ----- | 17 | 4 | 61 |
| E 94f-H-28 | City of Riverside, Hunt Tract Well 6, E. of Colton; 90 feet W. of Waterman Ave., 90 feet S. of Colton Ave. Use: Municipal. Casing: 8 inches. | 180113D | 1,015 | 544 | (e) | 1/30/31 4/18/31 | 39.5 | 0.31 | 67 | 140 144 | 28 31 | 33 130 | ----- | 20 | 3 | 54 |
| E 94g-H-28 | City of Riverside, Hunt Tract Well 9, E. of Colton; 11 feet W. of Waterman Ave., 11 feet S. of Colton Ave. Use: Municipal. Casing: 10 inches. | 180113E | 1,015 | 574 | (e) | 1/30/31 4/18/31 | 37.3 | 0.31 | 71 | 131 134 | 30 34 | 31 33 | 16 | 3 | 54 | |
| E 94h-H-28 | Oehl Packing Co., S. of San Bernardino; 250 feet W. of E. St., 650 feet N. of Colton Ave. Use: Domestic and packing house. | 18002A | 975 | 180 | (e) | 4/ 9/31 | 50.4 | 0.11 | 48 | 201 | 30 | 33 | ----- | 39 | 8 | 55 |
| E 94i-H-28 | City of Riverside, Stewart Tract Well 19, E. of Colton; 365 feet N. of S. P. R. R., 0.25 mile S. of Colton Ave., 70 feet W. of Waterman Ave. Use: Municipal. Casing: 20 inches. Perforated 115-131; 205-223; 406-440; 525-539; 675-760. | 18014A | 1,018 | 450 | (e) | 1/30/31 4/18/31 | 58.4 | 0.15 | 42 | 238 223 | 30 39 | 45 48 | ----- | 48 | 11 | 55 |
| E 94j-H-28 | City of Riverside, Stewart Tract Well 21, E. of Colton; 360 feet N. of S. P. R. R., 0.25 mile S. of Colton Ave., 130 feet W. of Waterman Ave. Use: Municipal. Casing: 20 inches. Perforated 115-131; 205-223; 406-440; 525-539; 675-760. | 18014B | 1,018 | *815 | (e) | 1/30/31 | 45.4 | 0.17 | 61 | 155 | 32 | 40 | ----- | 22 | 7 | 54 |

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

| Well number | Location and description | Constituents (parts per million) | | | | | | | | | | | | |
|---|---|----------------------------------|-----------------------------|-------------------|------|---|--|--|---|--|---|---|--|----|
| | | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Boron ppm | Specific electrical conductivity ($\text{K} \times 10^3$ at 25°C) | Percent sodium | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Magnesium (Mg) | | |
| E. 654 H 28 | City of Riverside Stewart Tract Well 20, E. of Colton; 240 feet N. of S. P. R. R., 0.25 miles S. of Colton Ave., 130 feet W. of Waterman Ave. Use: "Mineral". | 18014C | 1,018 | 898 | (e) | 1/30/31 4/18/31 | 35.0 | 0.20 | 91 | 101 120 | 18 30 | 52 150 | 2 | |
| I. A. Lambert, S. of San Bernardino; 0.13 mile N. of Colton Ave., 15 feet W. of Waterman Ave. Use: Irrigation, Casing: 12 inches. Gravel 102-128, 160-172, 186-202, 206-222, 50-610. | 18023 | 1,014 | x610 | \|\| | (e) | 6/13/31 | 37.1 | 0.10 | 43 | 119 18 | 33 | 3 | 27 | |
| City of Riverside (formerly C. W. and Rosetta D. Raub) Raub Tract Well 1, E. of Colton; 1930 feet E. of Waterman Ave., 0.47 mile S. of Central Ave., 350 feet S. of unnamed street, T-S. Irrigation, Casing: 12 inches. | 18022A | 1,022 | ..... | \|\| | (e) | 1/12/31 | 28.5 | 0.08 | 35 | 119 2 | 17 | ..... | 28 | |
| City of Riverside, Warren Tract Well 1, E. of Colton; 48 feet N. of Waterman Ave., 2265 feet S. of Dumas Drive, 0.6 mile N. of Colton Ave. Use: Irrigated municipal, capped II, 722-745, and not used. Casing: 20 inches. Perforated at 485, and reperforated at 92-124; 224-235; 251-305. Artesian well, 745; 772-84. Artesian well. Sampled at 555, 616, 710, and 799 feet, respectively, by special method to isolate water originating at these depths. | 18022B | 1,002 | 965 | ..... | (e) | 11/26/30 1/23/31 3/25/31 4/6/31 4/6/31 4/6/31 4/6/31 4/6/31 6/23/31 | 44.5 43.6 42.9 0.67 42.3 0.67 41.9 43.5 40.2 43.4 | 0.81 0.64 0.67 0.67 0.67 0.67 0.65 0.80 0.32 0.62 | 90 86 84 86 86 86 85 93 88 116 | 107 113 113 110 110 110 107 93 88 107 | 55 53 44 46 46 34 34 107 107 107 | 31 29 30 46 34 34 34 30 30 130 | 4 6 8 9 1 1 1 1 1 6 | |
| W. of Waterman Ave., 1356 feet S. of Dumas Drive, 0.68 miles N. of Colton Ave. Use: Proposed municipal, capped 8/20/32 and not used. Casing: 20 inches. Perforated originally at 556-638; 722-748; 772-844; later plugged at 485, and reperforated at 92-124; 224-235; 251-305. Artesian well. Samples prior to 4/6/31 were from natural flow. Samples on 4/6/31 were taken from depths of 537, 642, 704, 786, and 808 feet, respectively, by special method to isolate water originating at these depths. Sample on 5/19/31 from 512/31, by same method. U.S. D. A. analyses on 5/19/31 from 512/31, and 5/22/31 are duplicates of D. W. R. Lab. Nos. 1, 2 and 3. Samples on 5/19/31 are from stratum at 237-257 feet, and on 5/22/31 from stratum at 224-235, and on 5/22/31 from stratum at 92-124 feet. | 18022C | 1,022 | 965 | ..... | (e) | 11/20/30 1/23/31 3/25/31 4/6/31 4/6/31 4/6/31 4/6/31 4/6/31 6/23/31 | 42.4 45.0 44.9 44.0 44.9 44.1 39.4 38.7 42.1 | 0.89 0.78 0.89 0.80 0.82 0.84 0.20 0.07 0.65 | 78 82 88 85 88 88 86 91 78 | 122 113 110 116 116 113 110 116 155 | 59 56 56 53 53 57 39 44 43 | 24 25 26 24 26 26 39 45 25 | 13 11 11 8 9 7 7 6 | |
| City of Riverside Co. Community Well, E. of Colton; 50 feet W. of Waterman Ave., 300 feet N. of A. T. & S. F. Ry., 0.49 mile S. of Central Ave. Use: Domestic. Casing: 10 inches. | 18022D | 1,021 | *1,188 | ..... | e1 | 8/11/31 8/11/31 8/12/31 8/13/31 8/13/31 8/13/31 8/14/31 8/14/31 8/15/31 | 45.6 43.5 32.6 30.8 30.8 30.8 32.4 32.4 32.6 | 0.10 0.01 0.04 0.06 0.06 0.05 0.05 0.05 0.06 | 18 22 22 25 25 28 17 17 27 | 192 189 183 150 150 149 128 128 159 | 16 14 11 9 9 11 12 12 146 | 77 62 51 38 38 36 37 37 146 | 11 8 8 7 7 6 8 9 7 | |
| City of Riverside, Raub Tract Well 2, E. of Colton; 0.29 miles E. of Waterman Ave., 0.67 mile S. of Central Ave., 220 feet N.E. of A. T. & S. F. Ry. Use: Municipal, Casing: 20 inches. Gravel 44-78; 102-138; 142-163; 169-181; 194-200; 240-251; 262-340; 382-401; 421-453; 452-458; 519-612; 658-720; 728-735; 744-758; 810-832; 839-858; 918-954-960; 982-1014; 1072-1079; 1090-1100; 1145-1166. Perforated in gravel below 500 feet when completed. Samples 1 to 24, inclusive, were taken while drilling from various depths as listed below. | 18022E | 1,022 | x300 | | (e) | 3/27/31 | 28.7 | 0.05 | 15 | 149 | 4 | 4 | 34 | 6 |
| 1 44-62 feet 13 510-612 feet 2 67-76 feet 14 668-720 feet 3 102-138 feet 15 738 feet 4 142-163 feet 16 744-758 feet 5 169-181 feet 17 876-882 feet 6 194-216 feet 18 892-908 feet 7 218-236 feet 19 918-950 feet 8 240-257 feet 20 954-960 feet 9 262-340 feet 21 992-1014 feet 10 382-401 feet 22 1032-1073 feet 11 421-433 feet 23 1080-1100 feet 12 452-470 feet 24 1145-1166 feet 25 Water from gravel perforated below 500 feet after completion of well. | 18023A | 1,027 | x..... | | (e) | 6/13/31 | 50.9 | 0.09 | 44 | 217 | 28 | 28 | 45 | 10 |

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

| Well number | Location and descriptor | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|--------------------|--|--------------------|---|-----------------------------|--|---|
| | | | | | | | Specific electrical conductance at 25°C. | Boron ppm | Per cent sodium Na x 100 (Ca + Mg + Na) | Chloride (Cl ⁻) | Sulfate (SO ₄ ²⁻) | Nitrate (NO ₃ ⁻) |
| E 49sp G 2s | Gage Canal Co., Well 29-2, N. of Loma Linda; 0.06 miles N. of San Bernardino Ave., 0.63 mile W. of Tippecanoe Ave., on N. side of Gage Canal. Use: Irrigation. Casing: 24 inches. Perforated 122-289. | 18032A | 1,040 | *325 \|\| | 1217 | 8/ 6/32 | 54.3 | 0.01 | 17 | 183 | 23 | 73 |
| E 49ss H 2s | Gage Canal Co., Well 29-1, N. of Loma Linda; 0.27 mile N. of Colton Ave., 0.38 mile W. of Tippecanoe St. Use: Irrigation. Casing: 24 inches. Perforated 34 1/2, 119 13/16, 145 23/32; 255-279. | 18033D | 1,040 | *303 \|\| | 1371 | 9/12/32 | 71.5 | 0.07 | 35 | 327 | 32 | 50 |
| E 49sz H 2s | Mrs. A. Law, E. of Colton, 0.9 mile S. of Central Ave., 400 feet E. of Waterman Ave. Use: Irrigation. Casing: 12 inches. Gravel 135-250; 504-527; 604-730. | 18022I | 999 | *730 \|\| | (e) | 4/20/31 | 31.4 | 0.10 | 42 | 155 | 9 | 21 |
| E 49sz H 2s | Gage Canal Co., Well P, SE. of San Bernardino; 1700 feet N. of Colton Ave., 0.65 mile E. of Waterman Ave. Use: Irrigation. Perforated 340-405, 575-590; 669-640. | 18033I | 1,040 | *640 \|\| | (e) | 6/13/31 | 51.5 | 0.09 | 37 | 226 | 25 | 41 |
| E 101b G 2s | Gage Canal Co., Well 30-1, N. of Loma Linda; 500 feet S. of Central St., 900 feet E. of Tippecanoe Ave. Use: Irrigation. Casing: 24 inches. Gravel 74-174; 200-236; 248-300; 314-348; 380-400; 418-478; 490-535; 600-618; 636-654; 672-679; 682-700; 758-772; 766-808; 810-816; 820-822; 838-874; 907-911. | 18041I | 1,055 | *937 \|\| | (e) | 1/15/31 9/12/32 | 1374 | 1/15/31 9/12/32 | 32.6 | 0.02 0.16 | 41 21 | 146 119 |
| E 101c G 2s | Gage Canal Co., Well 31-1, SE. of San Bernardino; 750 feet E. of Tippecanoe Ave., 450 feet S. of Central St. Use: Irrigation. Casing: 24 inches. Perforated 100-144, 151-172; 190-232; 264-324; 340-375; 384-402. | 18041A | 1,055 | *422 \|\| | 1375 | 9/14/32 | 35.0 | 0.15 | 53 | 155 | 11 | 27 |
| E 103 H 2s | W. Henry Van Leeven, E. of Loma Linda; 20 feet W. of Mountain View Ave., 150 feet S. of intersection of Mountain View Ave. and Mission Road. Use: Irrigation. | 18054 | 1,120 | -----\|\| | (e) | 4/ 4/30 | 79.1 | 0.04 | 39 | 366 | 43 | 58 |
| E 103c H 2s | College of Medical Evangelists, Kelley Well, Loma Linda, 1250 feet E. of Anderson St., 200 feet N. of Van Leeven St. Use: Domestic. Perforated 180-194, 198-208, 610-640; 690-734. | 18044A | 1,090 | *754 \|\| | 1218 | 8/ 4/32 | 69.6 | 0.05 | 48 | 302 | 45 | 49 |
| E 107L H 2s | Allen Brook and C. A. Puffer, Puffer Well, Bryn Mawr; 1900 feet E. of Mountain View Ave., 1200 feet N. of Barton Ave. Use: Irrigation. Casing: 14 inches. Gravel-packed well. | 18064B3 | 1,150 | 425 \|\| | 1220 | 8/ 5/32 | 85.5 | 0.09 | 41 | 336 | 57 | 78 |
| E 109a G 2s | Langford De Hart, De Hart Well, NW. of Redlands; 30 feet N. of Palmetto Ave., 50 feet W. of Alabama Ave. Use: Irrigation. Casing: 18 inches. Perforated 79-209. | 18091F | 1,220 | *220 \|\| | 1224 | 8/ 5/32 | 41.3 | 0.03 | 15 | 183 | 9 | 29 |
| E 110d G 2s | H. C. Emm, Fairview Well, NW. of Redlands; 265 feet N. of San Bernardino Ave., 642 feet W. of Alabama Ave. Use: Irrigation. | 18082 | 1,215 | 300 \|\| | (d) | May, 1919 | -----\|\| | -----\|\| | 21 | 177 | 12 | 22 |
| E 110e H 2s | Macart Water Co., NW. of Redlands; 640 feet E. of Alabama St., 670 feet N. of Luconia Ave. Use: Irrigation. | 18092 | 1,240 | 400 \|\| | (d) | Oct., 1918 | -----\|\| | -----\|\| | 11 | 191 | 11 | 35 |
| E 110t H 2s | Leigh Nickerson, W. of Redlands; 75 feet S. of A. T. & S. F. Ry. loop tracks 50 feet W. of Nevada St., 30 feet S. of old well E-110a-29; Use: Irrigation. Casing: 20 inches. Perforated 294-298, 313-333, 366-454. | 18083B | 1,188 | *467 \|\| | 1222 | 8/ 5/32 | 44.2 | 0.01 | 20 | 177 | 27 | 25 |
| E 114f H 2s | City of Redlands, Texas St., Plant 1, Well 30. Redlands; 220 feet N. of Luazonia Ave., 180 feet W. of Texas St. S. well of thar. Use: Municipal. Casing: 18 inches. Gravel 90-120; 120-257. | 18102A | 1,313 | *x237 \|\| | 1226 | 8/ 4/32 | 44.6 | 0.04 | 17 | 186 | 11 | 32 |
| E 114g H 2s | City of Redlands, Well 41, Redlands; 150 feet W. of Texas St., 50 feet S. of S. P. R. R. Use: Municipal. Casing: 20 inches. Perforated 150-442. | 18104A | 1,300 | *474 \|\| | 1227 | 8/ 4/32 | 45.6 | 0.13 | 26 | 168 | 28 | 38 |
| E 114t H 2s | North Brae Water Co., N. of Redlands; 350 feet N. of San Bernardino Ave., 50 feet W. of Church St. Use: Irrigation. Casing: 20 inches. Perforated 184-366. | 18122 | 1,390 | *400 \|\| | 1228 | 8/ 6/32 | 38.4 | 0.01 | 13 | 177 | 7 | 27 |
| E 123f H 31 | East Luazonia Water Co., Well 5, Mentone; 100 feet E. of Berry Ave., 300 feet N. of Luazonia (Mentone) Ave. Use: Domestic and irrigation. Casing: 26 inches. Perforated 116-183. | 18172B | 1,690 | *x318 \|\| | 1232 | 8/ 4/32 | 36.6 | 0.01 | 12 | 174 | 9 | 30 |

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|---------|---|-------------|-----------------|---------------------------------|------------------------------|---------------------------------|-----------------------------|---------------------------------------|----|----|
| | | | | | | | Specific electrical conductivity ($K \times 10^4$ at 25°C) | Boron (ppm) | Per cent sodium | Bicarbonate ($Na \times 100$) | Nitrate radicle (NO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Bicarbonate + Magnesium ($Ca + Mg$) | | |
| E-127g-H-31 | Chas. T. Paine, Well 2, S. of Mentone; 0.23 mile S. of Colton Ave., 300 feet W. of King St. Use: Irrigation. Perforated 120' 152', 157' 178', 12' 212', 218' 228'. | 18173 | 1,710 | *250 | 1233 | 8/ 5/32 | 40.2 | 0.02 | 19 | 198 | 13 | 23 | 11 | 46 | 17 | 20 |
| E-127t-H-31 | McIntosh Estate, E. of Mentone; 1000 feet N. of Ligonia (Mentone) Ave., extended on W. line of Greenspot Road. Use: Irrigation and domestic. | 18192A | 2,017 | x----- | 1234 | 8/ 4/32 | 40.4 | 0.03 | *10 | 210 | 7 | 27 | 7 | 57 | 15 | 10 |
| E-131f-G-31 | Greenspot Mutual Well Co., NE. of Mentone; 2100 feet N. of Newport Ave., 150 feet W. of Peppers Road (private road). Use: Irrigation. Casing: 16 inches. Perforated 90' 147'. | 18201 | 2,100 | *x160 | 1236 | 8/ 4/32 | 34.2 | 0.03 | 12 | 162 | 11 | 21 | 7 | 47 | 11 | 11 |
| E-131g-G-31 | Western Fruit Co., NE. of Mentone; 0.8 mile N. of Newport St., 100 feet W. of Peppers Road (private road). Use: Irrigation. Casing: 18 inches. Perforated 60' 120', 125', 152'. | 18200 | 2,100 | *630 | 1235 | 8/ 4/32 | 36.0 | 0.03 | 18 | 177 | 9 | 30 | 2 | 45 | 12 | 17 |
| E-134-G-32 | East Highland Orange Co., Sunnis Ranch Well 2, N. of Yucaipa; N. 16° E. from Southern California Edison power plant near Rainbow Angling Club on Mill Creek, N. 64° W. from intersection of 2d Ave. and Mill Creek Road. Use: Irrigation. Casting: 20 inches. Gravel 200' 233', 329' 445', 533' 593'; *45' 1012'. | 18231 | ----- | *1,012 | 1239 | 8/ 4/32 | 32.2 | 0.01 | 15 | 165 | 4 | 21 | 0 | 42 | 11 | 12 |
| E-134a-G-32 | East Highland Orange Co., Sunnis Ranch Well 1, N. of Yucaipa; N. 45° E. from power house near Rainbow Angling Club on Mill Creek, N. 64° W. from intersection of 2d Ave. and Mill Creek Road. Use: Irrigation. Casing: 20 inches. | 18231A | 2,580 | *922 | 1240 | 8/ 4/32 | 33.5 | 0.07 | 15 | 165 | 2 | 32 | 1 | 42 | 11 | 12 |

* Log in files of Division of Water Resources.

x Water levels in files of Division of Water Resources.

† Includes small equivalent quantity of Carbonate (CO_3^{2-}).‡ Sulphate (SO_4^{2-}) determined by turbidity method.

§ Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

d Analysis by University of California Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

e Analysis by United States Department of Agriculture, Rabidoux Laboratory, Riverside, California.

f Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.

g Analysis by Edward S. Babcock and Sons, Riverside, California.

TABLE 17. WELLS IN CHINO AREA

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|----------------------|---|--------------|-----------------|-------------------------------------|---|---|----------|
| | | | | | | | Specific electrical conductivity (K _x 10 ⁻³ at 25°C.) | Boron ppm | Per cent sodium | Chloride radicle (Cl ⁻) | Sulphate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | |
| C-583b G-1s | Base Line Water Co., Puddingstone Well 2, SW. of La Verne; 600 feet S. of Walnut Ave.; 180 feet W. of right angle turn in Walnut Ave. Use: Irrigation. Casing: 20 inches. Perforated 120-234. T.S. D.A. analysis on 10/22/31 is duplicate of D.W.R. Lab. No. 478. | 3210A | 985 | *x275 | 478 | 10/22/31 10/22/31 | 45 ^b 45 ^a | 0.22 0.23 | 58 61 | 14 18 | 61 58 | 29 29 | 8 5 |
| C-586-G-1s | Bonita Water Co., La Verne; 80 feet S. of 6th St., 270 feet W. of D St. Use: Irrigation. Casing: 22 inches. Gravel processed well. | 4439L | 1,059 | *x613 | 442 | 10/16/31 | 50.5 | 0.08 | 35 | 217 | 25 | 43 | 4 |
| C-611-G-19 | San Dimas Water Co., Yorba Well 1, S. of La Verne; 15 feet S. of La Verne Ave., 60 feet E. of Lincoln Ave. Use: Irrigation. Casing: 18 inches. Perforated 73-177, 109-131, 249-272, 263-327, 363-373. | 3230 | 1,043 | *x393 | 477 | 10/22/31 | 30.4 | 0.03 | 24 | 159 | 7 | 15 | 37 |
| C-622a-G-19 | La Verne Water Co., La Verne Heights; 250 feet N. 13th W. from intersection of Base Line Ave. and Live Oak Canyon Road. Use: Irrigation. Casing: 18 inches. Perforated 248-277, 305-401, 418-432, 455-460, 490-496, 506-510. | 4455E | 1,285 | *x530 | 443 | 10/16/31 | 36.9 | 0.47 | 48 | 143 | 12 | 30 | 13 |
| C-649e-G-19 | City of Pomona, Well 3, Pomona; 750 feet S. of La Verne Ave., 400 feet E. of Garey Ave. Use: Municipal. Casing: 14 inches. Perforated 116-142, 168-176, 312-316; 444-450; 450-462; 500-522, 640-662. | 3241E | 990 | *x676 | (c) | 5/18/31 | ----- | ----- | 157 | 9 | b20 | ----- | ----- |
| C-656j F-20 | A. G. McKenna, N. of Claremont; 0.16 mile N. of Base Line Ave., 40 feet W. of Bonnie Brae Ave. Use: Irrigation. Casing: 20 inches. Gravel 700. | 4487c | 1,466 | *767 | 444 | 10/16/31 | 32.6 | 0.08 | 22 | 174 | 2 | 24 | 2 |
| C-663n G-19 | H. H. Garner, Claremont; 85 feet S. of 10th St., 190 feet W. of Yale Ave. Use: Irrigation. Casing: 15 inches. | 4480 | 1,228 | *550 | 445 | 10/16/31 | 32.5 | 0.01 | 10 | 183 | 2 | 17 | 2 |
| C-665 G-20 | Del Monte Irrigation Co., Well 226, Claremont; 110 feet E. of College Ave., 56 feet S. of A. T. & S. F. Ry. East well of two. Use: Irrigation. Casing: 16 inches. Perforated 170-435, U.S.D.A. analysis on 10/22/31 is duplicate of D.W.R. Lab. No. 475. | 3280J | 1,150 | *x450 | (d) | 10/22/31 10/22/31 | 47.5 51 | 0.06 0.03 | 54 51 | 143 150 | 5 5 | 15 13 | 22 24 |
| C-667i-G-19 | City of Pomona, Well 1, Pomona; 580 feet N. of Aliso St., 230 feet W. of P. E. Ry., E. of Garey Ave. Use: Municipal. 50 feet E. of Towne Ave. Use: Municipal. Casing: 14 inches. Gravel 223-235-249-307-364-383; 462-466, 482-513, 504-570, 531-624; 634-639; 670-682, 687-710. | 3241H | 960 | *x831 | (e) | 5/18/31 | ----- | ----- | 105 | 8 | b15 | ----- | ----- |
| C-667j G-19 | City of Pomona, Well 7, Pomona; 700 feet N. of La Verne Ave., 50 feet E. of Towne Ave. Use: Municipal. Casing: 14 inches. Gravel 223-235-249-307-364-383; 462-466, 482-513, 504-570, 531-624; 634-639; 670-682, 687-710. | 3261C | 980 | *x734 | (e) | 5/18/31 | ----- | ----- | 146 | 12 | b35 | ----- | ----- |
| C-667k G-19 | City of Pomona, Well 8, Pomona; 1300 feet N. of La Verne Ave., 107-222, 248-250, 324-335, 392-420; 431-477, 483-521, 523-525; 586-603; 623-634-774-786; 792-807; 815-827. | 3251E | 1,017 | *900 | (e) | 5/18/31 | ----- | ----- | 151 | 7 | b34 | ----- | ----- |
| C-670s G-19 | Pomona Irrigation Co., Pomona; 120 feet NE. of Willow St., 335 feet NW. of Orange Grove Ave. Use: Irrigation. Casing: 16 inches. Perforated 520-530; 575-594; 600-620, U.S.D.A. analysis on 10/22/31 is duplicate of D.W.R. Lab. No. 476. | 3252I | 452 | *690 | (e) | 10/22/31 10/22/31 | 26.4 26.4 | 0.06 0.10 | 88 95 | 137 179 | 4 5 | 19 18 | 4 4 |
| C-673 H-19 | East End Irrigation Co., Pomona; 25 feet S. of First St., 80 feet W. of East End Ave. Use: Irrigation. | 3274 | 900 | *x455 | 473 | 10/22/31 | 38.4 | 0.02 | 12 | 177 | 9 | 18 | 22 |
| D 701a F-20 | City of Upland, Well 1, NW. of Upland; 0.24 mile W. of Mountain Ave., 30 feet S. of 26th St. Use: Municipal. Casting: 12 inches. Gravel 260-278-420-446, 508-523-557. | 4524A | 2,160 | *192 | 567 | 12/1/31 | 37.2 | 0.17 | 10 | 207 | 4 | 24 | 2 |
| D 705c F-20 | City of Upland, Well 5, NW. of Upland; 0.13 mile N. of 21st St., 0.13 mile E. of Mountain Ave. Use: Municipal. Casting: 24 inches. Perforated 230-460. | 4555B | 1,855 | *491 | 568 | 12/1/31 | 34.5 | 0.17 | 13 | 183 | 4 | 18 | 6 |
| D 707 F-21 | San Antonio Water Co., Well 15, Paul Well, N. of Upland; 50 feet S. of 23rd St., 0.34 mile E. of Euclid Ave. Use: Irrigation. Casting: 12 inches. Gravel 260-278-420-446, 508-523-557. 504-608-620-630; 759-771-778-780-815-822-834-856; 884-891; 893-895, 897-902, 906-911, 920-936, 942-964. | 4517T | 1,836 | *x1,000 | (f) | 10/16/31 447 | 8/26/29 30.7 | 0.01 | 10 13 | 177 171 | 4 4 | 22 14 | Tr. 4 |
| D 711 F-20 | Enriched Water Co., Well 1, W. of Upland; 130 feet W. of Benson Ave., 0.29 mile N. of Base Line Road. Use: Irrigation. Gravel 324-347-581-590; 598-628; 633-653. | 4517I | 1,630 | *x679 | 449 | 10/16/31 | 29.0 | Tr. | 55 | 146 | 4 | 28 | 1 |

TABLE 17. WELLS IN CHINO AREA—continued

| Well number | Location and description | Loc. station number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^{-4}$ at 25°C) | Boron ppm | Per cent sodium $\frac{Na \times 100}{Ca + Mg}$ | Constituents (parts per million) | | | | | |
|-------------|---|---------------------|---------------------|-----------------------------|-------------------|----------|---|-----------|---|-----------------------------------|-----------------------------|---------------------------------|------------------------------|------------------|--------------------|
| | | | | | | | | | | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium ($Na$) |
| D-710c-F-20 | Euclid Water Co., Well 6, NW. of Upland; 0.38 mile W. of Benson Ave.; 0.3 mile N. of Wilson Ave.; Irrigation; Casing: 20 inches. Perforated 275-325; 475-520; 550-620; 675-700. | 4517D | 1,650 | *x762 | 450 | 10/16/31 | 33.3 | 0.03 | ..... | 186 | 5 | ..... | ..... | ..... | ..... |
| D-716-G-21 | City of Upland, Well 7, Upland; 0.10 mile W. of Campus Ave., Perforated 1443 sq. in. | 1,214 | *x901 | 560 | 12/ 1/31 | 33.7 | 0.14 | 17 | 189 | 6 | 7 | 7 | 49 | 8 | 14 |
| D-722c-G-20 | Limited Mutual Water Co., Well 1, W. of Ontario; 60 feet S. of 8th St., 1200 feet E. of Central Ave. Use: Irrigation and domestic. Casing: 16 inches. | 1,7650 | 1,182 | x660 | 574 | 12/ 2/31 | 35.1 | 0.13 | 12 | 201 | 2 | 14 | 4 | 51 | 13 |
| D-723-G-20 | Limited Mutual Water Co., Well 3, W. of Upland; 100 feet S. of 8th St., 122 mile E. of Central Ave. Use: Irrigation and domestic. Casing: 20 inches. Perforated 334-339; 351-452; 402-471, 186-500; 510-508; 508-625; 625-639; 664. | 1,7610A | 1,158 | *x664 | 573 | 12/ 2/31 | 33.3 | 0.12 | ..... | 189 | 0 | ..... | ..... | ..... | ..... |
| D-726b-H-21 | City of Ontario, Well 2, E. of Ontario; 85 feet S. of 4th St., 300 feet E. of Cuamonga Ave. Use: Municipal. Casing: 16 inches. | 1,7662A | 1,064 | x600 | (e) | 4/17/31 | ..... | ..... | ..... | 199 | 10 | 120 | ..... | ..... | ..... |
| D-726c-H-21 | City of Ontario, Well 4, E. of Ontario; 90 feet S. of 4th St., 300 feet E. of Grove Ave. Use: Municipal. Casing: 20 inches. Gravel 220-320; 320-337; 337-410; 411-417; 432-461. | 1,7672A | 1,056 | x600 | (e) | 570 | 4/17/31 | 34.2 | 0.15 | 17 | 183 | 10 | 125 | 6 | 47 |
| D-732-H-20 | Ranoma Mutual Irrigation Co., E. of Pomona; 30 feet S. of 5th St., 800 feet E. of Pomona Ave. Use: Irrigation. Casing: 14 inches. Gravel 249-270; 280-312; 363-370; 414-430; U.S. D. A. analysis on 10/22/31 is duplicate of D. W. R. Lab. No. 474. | 3294A | 1,070 | *x441 | (d) | 474 | 10/22/31 | 34.8 | 0.03 | 10 | 186 | 7 | 17 | 7 | 53 |
| D-735a-H-21 | City of Ontario, Well 5, Ontario; 350 feet W. of Euclid Ave., 600 feet S. of Desau Ave. Use: Municipal. Casing: 16 inches. Gravel 180-190; 201-208; 345-405; 411-415; 512-530; 612-652. Casing: 507 feet. | 17645 | 921 | *x672 | (e) | 4/17/31 | 39.5 | 0.15 | 17 | 201 | 13 | 138 | 9 | 18 | 51 |
| D-740a-H-20 | City of Chino, Well 3, N. of Chino; 445 feet W. of Central Ave., 400 feet S. of Phillips Blvd. Use: Municipal. Casing: 16 inches. Perforated 230-245; 257-300; 320-344; 370-382; 383-396; 414-418; 425-435; 450. | 17605 | 881 | *x453 | (e) | 5/18/31 | ..... | ..... | ..... | 190 | 9 | 18 | ..... | ..... | 17 |
| D-740b-H-20 | City of Chino, Well 1, N. of Chino; 75 feet S. of Phillips Blvd., 200 feet S. of Central Ave. Use: Municipal. Casing: 16 inches. Gravel 140-150; 230-280; 346-374. | 17615A | 890 | *x402 | (e) | 5/18/31 | 33.6 | 0.16 | 11 | 197 | 9 | 188 | 2 | 13 | 4 |
| D-740b-H-20 | City of Chino, Well 2, N. of Chino; 15 feet S. of Phillips Blvd., 610 feet W. of Central Ave. Use: Municipal. Casing: 16 inches. Perforated 256-272; 301-322; 325-331; 341-344. | 17605C | 885 | *x400 | (e) | 5/18/31 | ..... | ..... | ..... | 195 | 12 | 10 | ..... | ..... | ..... |
| D-744b-I-20 | John Weiss, N. of Chino; 150 feet W. of Telephone Ave., 30 feet inches. Gravel 170-180; 210-220; 300-310; 340-350; 380-390; 410-420. | 17606C | 806 | x175 | 565 | 12/ 1/31 | 42.3 | 0.22 | 18 | 217 | 13 | 13 | 10 | 53 | 14 |
| D-747c-I-21 | H. F. Brown et al., S. of Ontario; 600 feet S. of Walnut Ave., 800 feet E. of Euclid Ave. Use: Domestic and irrigation. | 17657B | 811 | 300 | 579 | 12/ 2/31 | 39.4 | 0.02 | 17 | 210 | 11 | 5 | 6 | 49 | 13 |
| D-751L-I-19 | B. B. Lahaw, W. of Chino; 125 feet S. of Riverside Ave., 35 feet W. of East End Ave. Use: Domestic and irrigation. Casing: 12 inches. Perforated 140-151; 200-209; 335-346; 270. U.S.D.A. analysis on 10/22/31 is duplicate of D. W. R. Lab. No. 472. | 32781 | 738 | *x273 | (d) | 10/22/31 | 33.8 | 0.06 | 16 | 156 | 5 | 16 | 4 | 46 | 11 |
| D-750a-I-20 | W. M. Freeman, S. of Chino; 135 feet S. of Shafer Ave., .95 feet W. of 12th Ave. Use: Domestic. Casing: 7 inches. | 17610A | 696 | x90 | 564 | 12/ 1/31 | 30.1 | 0.20 | ..... | 171 | 6 | ..... | ..... | ..... | ..... |
| D-750e-I-20 | Gunn and Oathis, Chino; 0.25 mile E. of Central Ave., 0.25 miles S. of Shafer Ave., 1st floor, 14th Street, 100 ft. Irrigated, 600 feet. Perforated 147-150; 205-250. | 17619D | 681 | *x250 | 572 | 12/ 1/31 | 30.2 | 0.13 | 20 | 171 | 0 | 17 | 1 | 39 | 10 |
| D-750d-I-20 | Southern California Edison Co., Ltd., Chino; 100 feet N. of Edison Ave.; 30 feet W. of Benson Ave. (15th St.) Use: Domestic, and industrial. Perforated 100-105; 120-130. | 16710A | 670 | *x202 | 1774 | 2/23/33 | 31.5 | 0.03 | ..... | 171 | 2 | ..... | ..... | ..... | 16 |
| D-763-I-21 | George Bird, E. of Chino; 90 feet S. of Shafer Ave., 0.36 mile E. of Euclid Ave. Use: Domestic. | 17659 | 723 | x----- | 575 | 12/ 2/31 | 94.1 | 0.10 | 11 | 220 | 160 | 46 | 4 | 117 | 34 |

TABLE 17. WELLS IN CHINO AREA—continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|--------------|--|-----------|---|-----------------------------------|-----------------------------|---------------------------------|------------------------------|--------------|----------------|-------------|-------|
| | | | | | | Sphere-electrical conductivity ($K \times 10^6$ at 25°C.) | Boron ppm | Percent sodium $\frac{Na \times 100}{Ca + Mg + Na}$ | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| D-762a-J-21 | Parl Thomas, SE of Chino; 150 feet S. of Edison Ave., 0.2 mile W. of Bon View Ave. 1 st , Irrigation and domestic. Casing: 14 inches. Gravel 44 to 140; 154; 163; 169. | 695 | *240 \|\| | 1779 | 2/23/33 | 38.7 | 0.04 | 20 | 198 | 9 | 12 | 9 | 46 | 13 | 19 | |
| D-762g-J-21 | F. A. Helsley, E. of Chino; 150 feet S. of Shaffer Ave., 0.30 mile W. of Bon View Ave. Use: Domestic. Casing: 6 inches. | 720 | 80 \|\| | 576 | 12/2/31 | 57.2 | 0.13 | 14 | 281 | 28 | 17 | 8 | 76 | 19 | 21 | |
| D-768a-J-19 | Joe Valpreda, S. of Chino; 200 feet W. of Pipe Line Ave., 140 feet N. of Carbon Canyon Road. (Merrill) Ave. Use: Domestic and irrigation. Casing: 10 inches. | 658 | x55 \|\| | 1773 | 2/23/33 | 84.1 | 0.28 | 44 | 327 | 71 | 53 | 13 | 60 | 24 | 58 | |
| D-771e-J-20 | Gilbert Kremer, S. of Chino; 225 feet E. of Prado Road, 0.58 mile S. of intersection of Home Ranch Ave. and Prado Road. Use: Domestic and irrigation. Casing: 16 inches. | 16713 | 584 | x175 \|\| | 1775 | 2/23/33 | 32.8 | 0.04 | 24 | 174 | 4 | 20 | 0 | 38 | 11 | 21 |
| D-772b-J-20 | R. Relles and L. Yabiro, S. of Chino; 45 feet S. of Robles Ave., 45 feet W. of Manolia Ave., extended. Use: Irrigation and domestic. | 16723A | 580 | 154 \|\| | 1776 | 2/23/33 | 30.9 | 0.04 | 25 | 168 | 2 | 17 | 6 | 37 | 10 | 21 |
| D-775-J-21 | J. F. Catlett, SE of Chino; 0.59 mile E. of Euclid Ave., 270 feet N. of Pine Ave. 1 st , Domestic. Casing: 7 inches. | 16754 | 570 | x140 \|\| | 1780 | 2/23/33 | 30.2 | 0.04 | 47 | 149 | 4 | 12 | 7 | 25 | 6 | 36 |
| D-780a-K-20 | Sonoria Meredith, S. of Chino; 0.25 miles S. of Pine Ave., 350 feet W. of Prado Road. Use: Irrigation and domestic. Casing: 12 inches. | 16735C | 540 | 64 \|\| | 1777 | 2/23/33 | 104 | 0.14 | 37 | 336 | 57 | 186 | 11 | 110 | 35 | 72 |
| D-781e-K-21 | L. Richenberger, S. of Chino; 65 feet E. of intersection of Prado Road and Pioneer Road. Use: Domestic and irrigation. Casing: 8 inches. | 16746C | 510 | 119 \|\| | 1778 | 2/23/33 | 71.7 | 0.08 | 26 | 265 | 28 | 114 | 5 | 78 | 22 | 46 |
| D-782a-K-21 | Owner unknown, W. of Norco; 350 feet N. of McCarty Ave., 4000 feet W. of Hellman Ave. Use: Domestic. Bailey No. 374. | 16776A | 505 | ----- | (1) 11/24/31 | 48 | ----- | 54 | 198 | 18 | 43 | 21 | 27 | 28 | 9 | 57 |
| D-783a-K-21 | Mike O'Neil, NW of Prado; 0.5 mile E. of Prado Road along road 0.5 mile S. of Pioneer School, 100 feet S. of road, 200 feet E. of Chino Creek. Use: Domestic. Casing: 7 inches. Bailey No. 375B. | 16767A | 491 | x----- | (1) 10/5/31 | 134 | ----- | 47 | 592 | 36 | 175 | 32 | ----- | 87 | 39 | c155 |
| D-789a-L-21 | I. V. Ashcroft, SE of Chino; 405 feet E. of Prado Road, 0.23 mile S. of Serrano Road. Use: Domestic and irrigation. Casing: 7 inches. Bailey No. 371BA. | 15550A | 471 | x45 \|\| | (1) 11/24/31 | 73 | ----- | 24 | 265 | 27 | 89 | 28 | 64 | 25 | 38 | 34 |
| D-791d-L-21 | United States Geological Survey, Test Well D, NW of Prado; 30 feet S. of Prado (Kunton) Road, 0.25 mile W. of the Santa Ana River, 0.25 mile E. of Chino Creek. | 15560B | 469 | x----- | (1) 10/5/31 | 70 | ----- | 21 | 266 | 28 | 87 | 27 | 66 | 26 | 36 | 34 |
| D-801e-K-21 | McCarthy Bros. W. of Norco; 0.4 mile S. of Chandler St., 100 feet W. of Hellman Ave. 1 st , Domestic. Casing: 6 inches. | 16785B | 566 | x32 \|\| | 1782 | 2/23/33 | 58.2 | 0.08 | 33 | 265 | 32 | 30 | 3 | 58 | 16 | 48 |
| D-802b-K-21 | Chino Gun Club, W. of Norco; 300 feet S. of McCarty Ave., 3400 feet E. of Serrano Road, 700 feet W. of Chino Gun Club Road. Use: Domestic. Bailey No. 379B. | 16777A | 500 | ----- | (1) 9/23/31 | 63 | ----- | 17 | 365 | 25 | 43 | 25 | 79 | 19 | 25 | 43 |
| D-802d-K-21 | A. R. McCarthy, W. of Norco; 150 feet S. of McCarty Ave., 1100 feet W. of Hellman Ave. 1 st , Domestic. | 16786 | 545 | 45 \|\| | 1783 | 2/23/33 | 78.5 | 0.08 | 26 | 412 | 28 | 24 | 18 | 93 | 23 | 52 |
| D-802e-K-21 | McCarthy Bros. W. of Norco; 0.47 mile W. of Hellman Ave., 300 feet S. of McCarty Ave. Use: Irrigation. Bailey No. 378C. | 16787A | 520 | ----- | (1) 10/5/31 | 76 | ----- | 32 | 329 | 43 | ----- | ----- | ----- | ----- | ----- | ----- |
| D-803a-K-21 | United States Geological Survey, Test Well E-1, N. of Prado; 2400 feet E. of Serrano Road from turn, 2700 feet SE of Chino Gun Club Road, 1000 feet N. of Santa Ana River. Use: 1 st , 2 nd , 3 rd , 4 th order Well. Casing: 14 th dia. well. | 16779B | 480 | 4 \|\| | 1381 | 9/15/32 | 68.4 | 0.26 | ----- | 329 | 43 | 357 | 119 | ----- | ----- | ----- |
| D-803b-K-21 | United States Geological Survey, Test Well E-2, N. of Prado; 30 feet N. of edge of active channel of Yorba St., extended. 1 st , 2 nd , 3 rd , 4 th order Well. Casing: 4 th dia. well. | 16779D | 475 | 8 \|\| | 1383 | 9/15/32 | 184 | 0.48 | ----- | 503 | 320 | ----- | ----- | ----- | ----- | ----- |

TABLE 17. WELLS IN CHINO AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($\text{K} \times 10^{-4}$ at 25°C) | Boron ppm | Per cent sodium ($\text{Na} \times 100$ / $(\text{Mg} + \text{Na})$) | Constituents (parts per million) | | | | | |
|-------------|--|---------------------|-----------------------------|-------------------|------|---|-----------|--|----------------------------------|----------------------------|--------------------------------|-------------------------------------|--------------------------------|--------------------------|
| | | | | | | | | | Bicarbonate (HCO_3^-) | Chloride (Cl^-) | Sulfate (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg^{2+}) | Sodium (Na^+) |
| D-812-K-22 | McCarty Bros. Well 2, W. of Norco; 40 feet N. of McCarty Ave. (Chino-Corona Blvd.), 640 feet E. of Hellman Ave. Use: Irrigation. Casing: 16 inches. Bailey No. 373B. | 16796 | 562 | x310 | (1) | 9/22/31 | 38 | - | - | - | - | - | - | - |
| D-813-K-22 | J. T. Hammer, W. of Norco; 600 feet E. of Archibald Ave., 3900 feet S. of Chandler Ave., on east line of private drive. Use: Domestic. Casing: 7 inches. Bailey No. 372B. | 16816 | 546 | x..... | (1) | 9/22/31 | 43 | 17 | 214 | 18 | 16 | 53 | 11 | 17 |
| D-904b-J-21 | C. T. Merrill, SE. of Chino; 30 feet W. of Walker Ave., 300 feet S. of Merrill Ave. Use: Irrigation and domestic. Casing: 14 inches. | 10781 | 657 | x207 | \|\| | 1781 | 2/23/33 | 61.4 | 0.04 | 17 | 247 | 14 | 14 | 24 |
| D-909a-J-22 | John Imbach, NW. of Norco; 160 feet W. of Archibald Ave., 10 feet S. of Cleveland Road, extended. Use: Irrigation and domestic. Casing: 16 inches. | 16802 | 643 | x310 | \|\| | 1784 | 2/21/33 | 89.5 | 0.04 | 363 | 232 | 10 | 54 | 13 |
| D-909a-J-22 | John Imbach, NW. of Norco; 230 feet W. of Archibald Ave., 10 feet S. of Cleveland Road, extended, 50 feet W. of Well D 909a-J-22. Use: Domestic. | 16802A | 642 | 310 | \|\| | 1785 | 2/21/33 | 89.9 | 0.05 | 15 | 375 | 14 | 11 | 33 |
| D-910c-J-22 | E. B. Covington, E. of Chino; 0.55 mile S. of Chino Ave., 0.2 mile W. of Archibald Ave. Use: Domestic. Casing: 16 inches. (travel 14 lbs. 11 $\frac{1}{2}$ 130 $\frac{1}{2}$, 246 $\frac{1}{2}$, 250 $\frac{1}{2}$, 310 $\frac{1}{2}$, 342 $\frac{1}{2}$, 354 $\frac{1}{2}$, 36 $\frac{1}{2}$, 37 $\frac{1}{2}$, 38 $\frac{1}{2}$, 42 $\frac{1}{2}$) | 17799A | 726 | *436 | | 477 | 12/2/31 | 33.1 | 0.12 | 23 | 183 | 4 | 13 | 4 |
| D-911f-J-22 | George Buccola, E. of Chino; 120 feet S. of Chino Ave., 0.4 mile W. of Archibald Ave. Use: Domestic. | 17698E | 752 | ..... | \|\| | 580 | 12/2/31 | 54.0 | 0.17 | 15 | 195 | 39 | 14 | 18 |
| D-918c-J-22 | Bert Gratzinger, N. of Norco; 400 feet N. of Citrus St., 0.15 mile W. of Summer Ave. Use: Irrigation and domestic. Casing: 12 inches. | 16824B | 600 | x196 | \|\| | 1787 | 2/21/33 | 69.8 | 0.02 | 23 | 314 | 45 | 29 | 13 |
| D-921b-J-22 | Wm. Poulsen, N. of Norco; 150 feet W. of Cleveland Ave., 2400 feet N. of Cleveland Road. Use: Irrigation and domestic. | 16831A | 675 | 500 | \|\| | 1789 | 2/21/33 | 19.8 | 0.02 | 42 | 94 | 6 | 6 | 0 |
| D-925-L-23 | A. T. Galloway (formerly Mrs. M. L. Johnson), SE. of Ontario; 300 feet N. of Riverside Blvd., 1000 feet E. of Adams Ave. Use: Domestic. | 1776A | 798 | 175 | \|\| | 508 | 11/13/31 | 38.2 | 0.04 | 27 | 180 | 23 | 6 | 9 |
| D-927b-L-23 | John Knauss, N. of Norco; 0.51 mile N. of Belle Grove Ave., 0.45 mile E. of Adams Ave. Use: Irrigation and domestic. (travel 7 $\frac{1}{2}$ lbs. 13 $\frac{1}{2}$, 23 $\frac{1}{2}$, 24 $\frac{1}{2}$, 28 $\frac{1}{2}$, 29 $\frac{1}{2}$, 33 $\frac{1}{2}$, 36 $\frac{1}{2}$) | 16850C | 725 | *300 | | 1790 | 2/21/33 | 36.7 | 0.02 | 23 | 189 | 9 | 6 | 8 |
| D-932-J-23 | A. Luekeman, NE. of Norco; 225 feet S. of Olive St. (River Road), 0.45 mile E. of Wineville Ave. Use: Irrigation. (travel 14 $\frac{1}{2}$ lbs. 15 $\frac{1}{2}$, 18 $\frac{1}{2}$, 1 $\frac{1}{2}$) | 16863 | 607 | *x202 | | 1792 | 2/23/33 | 21.9 | 0.01 | 42 | *95 | 11 | 9 | Tr. |
| D-934-L-23 | C. N. Marietta, NE. of Norco; 600 feet E. of Wineville Ave., 130 feet N. of Bell Grove Ave. (travel 14 $\frac{1}{2}$ lbs. 15 $\frac{1}{2}$, 18 $\frac{1}{2}$, 20 $\frac{1}{2}$, 23 $\frac{1}{2}$, 26 $\frac{1}{2}$) | 16860 | 714 | x104 | | 1791 | 2/2/33 | 71.5 | 0.02 | 18 | 186 | 98 | 8 | 98 |
| D-935a-L-23 | H. H. Kuhlman and A. W. Church, E. of Chino; 300 feet W. of Bellwood Ave., 0.2 miles N. of Bellwood Ave. Use: Irrigation and domestic. Casing: 12 inches. | 17779 | 762 | x400 | \|\| | 497 | 11/12/31 | 35.3 | 0.08 | 26 | 168 | 18 | 14 | 6 |
| D-935a-L-23 | Chas. E. Paulhaber, E. of Chino; 115 feet W. of Eltiwanda Ave., 78 feet S. of Riverside Ave. Use: Domestic. Casing: 7 inches. | 17778A | 735 | x141 | \|\| | 502 | 11/12/31 | 41.1 | 0.03 | ..... | 180 | 20 | ..... | ..... |
| D-936-L-23 | Chas. Stern and Sons, S. of Eltiwanda; 180 feet W. of Eltiwanda Ave., 78 feet S. of Riverside Ave. Use: Irrigation and domestic. Casing: 20 inches. (travel 150 lbs. 14 $\frac{1}{2}$, 20 $\frac{1}{2}$, 26 $\frac{1}{2}$) | 17776 | 845 | *x438 | | 498 | 11/12/31 | 32.1 | 0.04 | 24 | 177 | 7 | 12 | 4 |
| D-939-L-23 | Santa Ana River Water Co., NE. of Norco; 250 feet N. of Weller St., 270 feet E. of Martin Ave., 850 feet S. of Belle Grove Ave. Use: Irrigation and domestic. Casing: 16 inches. | 16880A | 727 | x250 | \|\| | 1793 | 2/27/33 | 43.0 | 0.01 | 24 | 174 | 32 | 10 | 5 |
| D-940a-J-23 | Santa Ana River Water Co., NE. of Norco; 75 feet S. of Malachite St., 0.70 mile E. of Eltiwanda Ave. Use: Irrigation and domestic. Casing: 10 inches. | 16880C | 689 | x200 | \|\| | 1794 | 2/23/33 | 56.2 | 0.06 | 30 | 159 | 60 | 34 | 5 |
| D-952-J-24 | Jurupa Heights Water Co., Well 1, W. of Bedley; 50 feet S. of Jurupa Ave., 0.41 mile W. of Garret St., Use: Irrigation and domestic. Casing: 16 inches. | 16912 | 650 | *114 | \|\| | 1795 | 2/21/33 | 57.9 | 0.21 | 43 | 134 | 77 | 36 | 8 |

TABLE 17. WELLS IN CHINO AREA—Continued

| Well number | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^6$ at 25°C) | Boron ppm | Percent sodium Na x 100 Ca + Mg | Constituents (parts per million) | | | | | | | |
|--------------|---|---------------------|-----------------------------|-------------------|----------|---|-----------|------------------------------------|----------------------------------|-----------------------------|--|---------------------------------------|-------|-------|-------|-------|
| | | | | | | | | | Bicarbonate (HCO_3^-) | Chloride (Cl ⁻) | Sulfate (SO ₄ ²⁻) | Nitrate-nitrite ($NO_3^- + NO_2^-$) | | | | |
| D-952a-J-24 | Jurupa Heights Water Co., Well 2, N. of Pedley; 110 feet S. of Pedley St., 50 feet E. of U.P.R.R. Use: Irrigation and domestic. | 16921 | 730 | x120 | 1796 | 2/21/33 | 76.1 | 0.16 | 35 | 201 | 84 | 55 | 13 | 56 | 26 | 62 |
| D-959-I-24 | J. C. Cole, NW. of Riverside; 300 feet E. of Arata St., 150 feet S. of Mission Blvd. Use: Domestic. Casing: 6 inches. | 17828 | 796 | x36 | 496 | 11/12/31 | 67.2 | 0.22 | 30 | 339 | 23 | 56 | 8 | 52 | 36 | 54 |
| D-968a-J-25 | Mr. McIntosh, W. of Riverside; 400 feet SE. of Riverview Drive, 0.5 miles SW. of Linton Ave., 1200 feet NE. of U.P.R.R. Use: Irrigation and domestic. | 16962A | 728 | x..... | 1798 | 2/27/33 | 67.7 | 0.11 | 21 | 354 | 16 | 47 | 2 | 84 | 22 | 38 |
| D-968b-J-25 | City of Riverside, W. of Riverside; 0.53 mile SW. of Riverview Drive, 0.38 miles S. of Sewer Farm Road, which is 1.5 miles SW. of Mission Blvd. Use: Domestic. Casing: 8 inches. | 16972 | 735 | 46 | 1790 | 2/27/33 | 95.9 | 0.14 | 31 | 387 | 87 | 56 | Tr. | 102 | 25 | 73 |
| D-971a-I-25 | A. B. Lane, West Riverside; 150 feet N. of Mission Blvd., 100 feet W. of Opal Ave. Use: Domestic. Casing: 6 inches. | 17870A | 865 | 96 | 501 | 11/12/31 | 79.4 | 0.14 | ..... | 326 | 48 | ..... | ..... | ..... | ..... | ..... |
| D-975c-I-25 | E. K. Smith, West Riverside; 200 feet SW. of A St., 0.2 mile NE. of Wilson St., 1500 feet SW. of First St. Use: Domestic. | 17890D | 316 | x70 | 495 | 11/12/31 | 87.2 | 0.19 | 33 | 357 | 50 | 82 | 9 | 81 | 30 | 73 |
| D-975d-I-25 | W. S. Pitney, West Riverside; 0.25 mile SE. of Riverview Drive, 0.6 mile SW. of intersection of Riverview Drive and Mission Blvd. Use: Domestic. Casing: 5 x 10 inches. | 16980A | 770 | x23 | 1800 | 2/27/33 | 129 | 0.22 | 32 | 418 | 156 | 74 | 13 | 112 | 43 | 67 |
| D-984k-I-26 | Riverside Cement Co., Mine Sump Drift, NW. of Riverside; 1500 feet E. of Crestmore Road (A St.), 1200 feet NW. of Canal St. Use: Industrial. Flow 100 inches. Type of sample: elevation of 100 feet. Owner believes water uses through limestone crevices from great depth. | 17917D | 900 | 267 | 924 | 4/28/32 | 62.2 | 0.02 | 23 | 174 | x9 | 27 | 7 | 73 | 14 | 33 |
| D-1001b-G-21 | Cucamonga Water Co., Well 6, E. of Upland; 0.11 mile S. of Base Line Ave., 195 feet W. of Cornelian St. Use: Irrigation. Casing: 12 inches. | 4587J | 1,420 | x365 | 608 | 12/16/31 | 27.9 | 0.01 | 22 | 143 | 6 | 16 | 4 | 34 | 10 | 16 |
| D-1002b-G-21 | Arrow Route Water Co., E. of Ontario; 650 feet W. of Vineyard Ave., 106 feet S. of Arrow Highway. Use: Irrigation. Casing: 10 inches. Pierced: 37.40, 42.8, 51.0, 51.17, 53.20, 53.6, 59.0-63.0, 63.1-67.0; 67.4-700, 722-728. | 17680 | 1,164 | x745 | 563 | 12/ 1/31 | 35.1 | 0.19 | ..... | 189 | 6 | ..... | ..... | ..... | ..... | ..... |
| D-1007a-H-22 | Ralph Weiler, SE. of Ontario; 140 feet E. of Vinegar Ave., 55 feet S. of Francis St. Use: Irrigation and domestic. | 17685 | 866 | x..... | 578 | 12/ 2/31 | 36.3 | 0.12 | 18 | 183 | 11 | 13 | 7 | 44 | 12 | 16 |
| D-1012a-G-22 | Old Settlers Water Co., Well 1, S. of Alta Loma; 1330 feet S. of Base Line Ave., 650 feet W. of Archibald Ave., 20 feet S. 20 feet W. from NE. corner of Lot 7, Cucamonga Fruit Lands. Use: Irrigation. Casing: 15 inches. | 18508 | 1,322 | x448 | (d) | 8/ 5/31 | 36.8 | Tr. | 18 | 201 | 7 | 21 | 9 | 47 | 12 | 16 |
| D-1016-H-22 | Mr. Signorio, N. of Guasti; 675 feet S. of 4th St. (San Bernardino Ave.), 0.24 mile E. of Archibald Ave. Use: Irrigation and domestic. Casing: 16 inches. Gravel 2.4-2.51. | 17712 | 1,016 | x507 | 500 | 11/12/31 | 37.3 | 0.02 | 19 | 207 | 9 | 7 | 9 | 4 | 12 | 19 |
| D-1024-G-22 | Mission Vineyard Co., NW. of Elizanda; 30 feet S. of Base Line Ave., 0.56 mile W. of Orange St., 0.94 mile E. of Haven Ave. 1/2 mile E. of Archibald Ave., 20 inches. Gravel 3.22-3.25, 3.40-3.55, 3.72-4.01, 4.00-4.20. | 18547A | 1,331 | x964 | 1430 | 9/23/32 | 35.8 | 0.01 | 13 | 186 | 4 | 11 | 1 | 55 | 9 | 12 |
| D-1029-H-23 | Nando Miglietta (formerly Mr. M. S. Spardly), E. of Guasti; 0.35 mile E. of Orange St., 0.15 feet S. of S. P. R. R. Use: Domestic. Casing: 10 inches. | 17767 | x280 | 499 | 11/12/31 | 39.5 | 0.03 | 30 | 207 | 18 | 6 | 6 | 42 | 11 | 33 | |
| D-1042a-H-23 | S. S. Swanson, S. of Elizanda; 0.4 mile N. of Marley Ave., 0.57 mile E. of Lizardia, Av. Use: Domestic. Casing: 10 inches. | 17785A | 310 | x146 | 503 | 11/12/31 | 39.8 | 0.06 | ..... | 192 | 27 | ..... | ..... | ..... | ..... | ..... |
| D-1050-G-24 | Fontana Union Water Co., F.U. Well 17, E. of Elizanda; 75 feet E. of Cherry Ave., 110 feet S. of A. T. & S. F. Ry., 300 feet N. of Merrill Ave. Use: Irrigation. Casing: 20 inches. Gravel 3.30, 3.40, 4.01-4.38, 4.50-4.66, 4.74-4.80, 4.98-6.32. | 17810 | 1,165 | x845 | 505 | 11/13/31 | 35.5 | 0.08 | 19 | 192 | 9 | 5 | 6 | 50 | 8 | 17 |
| D-1056-H-24 | Fontana Union Water Co., F.U. Well 5, SW. of Fontana; 30 feet S. of Slover Ave., 50 feet W. of Poplar Ave. Use: Irrigation. Casing: 10 inches. Gravel 2.50-2.70, 4.1-4.40, 5.20-5.40. | 17833 | 1,052 | x854 | 506 | 11/13/31 | 33.8 | 0.01 | 21 | 174 | 9 | 12 | 6 | 44 | 7 | 18 |

TABLE 17. WELLS IN CHINO AREA—Continued

| Well number | Location and the tributary | Location number | Location | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | |
|--------------|--|-----------------|----------|---------------------|-----------------------------|----------------------|--------------|----------------------------------|---|----------------|--|--|-------------------------------------|------------------------------------|----------------|
| | | | | | | | | Boron ppm | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Percent sodium | Bicarbonate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Chloride radicle (Cl^-) | Maximum (M.E.) | Sodium (Na) |
| D 1001 G 25 | Fontana Union Water Co., F.U. Well 31, W. of Rialto; 40 feet S. of Base Line Ave.; 310 feet E. of citrus Ave. Use: Irrigation and domestic. Casings: 20 inches. Perforated 610-761. | 1,396 | *x761 | 604 | 12 15 31 | 33.2 | 0.02 | 22 | 201 | 9 | 3 | 3 | 46 | 7 | 19 |
| D 1002 G 25 | Fontana Union Water Co., New I.U. Well 11, Fontana; 100 feet S. of A.T. & F.Ry.; 40 feet E. of Juniper Ave.; Domestic and irrigation. Casings: 20 inches. Perforated 700-841. | 1750 | 1,217 | *x872 | 500 | 11/13/31 | 31.4 | 0.06 | 180 | 5 | | | | | |
| D 1004a H 25 | Fontana Union Water Co., F.U. Well 15, S. of Fontana; 30 feet S. of San Bernardino Ave.; 0.13 mile W. of Magnolia Ave. Use: Irrigation. Casings: 20 inches. Gravel 318-332; 388-420; 444-464; 484-496; 500-548; 544-594; 590-630; 638-646; 650-650. | 1,156 | *x808 | 510 | 11/13/31 | 33.4 | 0.03 | 180 | 7 | | | | | | |
| D 1007a G 25 | Fontana Union Water Co., F.U. Well 23, W. of Rialto; 55 feet S. of Base Line Ave.; 634 feet W. of Alder Ave. Use: Irrigation and domestic. Gravel 260-304; 328-348; 364-398; 462-480; 510-533. | 1,409 | *x533 | 605 | 12 15 31 | 31.8 | 0.11 | 13 | 183 | 6 | 9 | 2 | 50 | 8 | 11 |
| D 1073 G 25 | West Rialto Water Co., Well 1, W. of Rialto; 425 feet W. of Laurel Ave.; 116 feet S. of Base Line Ave.; 30 feet S. of Well 2. Use: Irrigation. Casings: 16 inches. Gravel 319-376; 405-448; 545-585; 635-657. | 1,390 | x536 | 1,432 | 9 23 32 | 31.1 | 0.01 | 13 | 174 | 2 | 7 | 1 | 46 | 9 | 10 |
| D 1075 G 25 | Fontana Union Water Co., F.U. Well 12, N. of Bloomington; 75 feet S. of Randall Ave.; 400 feet W. of Linden Ave. Use: Irrigation. Casings: 16 inches. Gravel 319-376; 405-448; 545-585; 635-657. | 1,780 | 1,227 | *x531 | 507 (e) | 11/13/31 11/13/31 | 44.5 46.3 | 0.17 0.16 | 21 24 | 223 220 | 12 11 | 9 16 | 57 57 | 13 16 | 24 26 |
| D 1075a G 25 | Fontana Union Water Co., F.U. Well 28, E. of Fontana; 45 feet S. of Merrill Ave.; 265 feet W. of Locust Ave. Use: Irrigation. Casings: 20 inches. Perforated 364-398; 390-398; 410-429; 472-480; 1-S. D. A. analysis on 11 13 31 is duplicate of D.W.R. Lab. No. 507. | 1,180 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| D 1076 H-26 | Crestmore Ranch, S. of Bloomington; 425 feet E. of Linden Ave.; 135 feet S. of Jurupa Ave. Use: Irrigation and domestic. American States Water Service Co., Well 1, N.E. of Bloomington; 700 feet N. of Randall Ave.; 40 feet E. of Larch Ave. Use: Mineral water. Casings: 16 inches. Perforated 28-230; 234-280; 240-307; 328-360; 445-500; 575-612. | 1,785 | 997 | - | - | - | - | - | - | - | - | - | - | - | - |
| D 1082 G-26 | Lytche Creek Water and Improvement Co., Willow St. Well, Rialto; 1800 feet N. of Foothill Blvd.; 200 feet E. of Willow Ave. Use: Irrigation. Gravel 167-250; 256-266; 284-294; 299-310; 370-380; 452-488; 402-414; 430-438; 436-530; 61-632; 684-748; 782-787. | 1,297 | *x828 | 1,312 | 9/ 2/32 | 31.8 | 0.01 | 15 | 180 | 4 | 2 | 1 | 48 | 8 | 12 |
| D 1085 G 26 | Jurupa Water Co., Plant 1, SW. of Colton; 2810 feet S. and 310 feet W. of the center of See 25 T. 18 S. 5 W. S.B. & M.; 150 feet N. of Aqua Mansa Road. Use: Irrigation. Casings: 12 inches. | 1,745 | 900 | 300 | (e) | Sept. 1918 | - | 5 | 185 | 9 | 18 | b | 45 | 19 | c4 |
| D 1092c H 26 | Twin Battles Water Co., Plant 6, SW. of Colton; 1310 feet S. and 800 feet W. of the E. 1/4 corner, See 25, T. 1 S., R. 4 S. B. & M.; 100 feet N. of Aqua Mansa Road. Use: Irrigation. Casings: 12 inches. | 1,794 | \$75 | *275 | (e) 8/ 5/29 | 1/28/20 | - | 35 11 | 256 183 | 94 46 | 1 | 120 | 32 | 10b | 11 |
| D 1092b H 26 | Jurupa Water Co., Plant 1 1/2, SW. of Colton; 2490 feet S. and 200 feet W. of the center of See 25, T. 1 S., R. 5 W. S.B. & M.; 100 feet N. of Aqua Mansa Road. Use: Irrigation. Casings: 12 inches. | 1,7945 | 900 | 150 | (e) | Sept. 1918 | - | 38 | 185 | 9 | 17 | 7 | 32 | 10 | c4 |
| D 1105 F 21 | San Antonio Water Co., (Formerly) Plant 13, Rex Well, E. of Upland; 25 feet W. of Cornelian St.; 70 feet N. of Orange St. Use: Irrigation. Casings: 16 inches. | 4,618 | x575 | (e) | Nov. 1918 | - | 35 | 1100 | 9 | 13 | 9 | 21 | 6 | c19 | |
| D 1106a F 22 | Upland Water Co., NE. of Upland; 1360 feet E. of Cornelian St.; 103 feet S. of 19th St.; Use: Irrigation. Perforated 273-282; 287-300; 321-324; 326-345; 347-363; 399-418; 449-474-491; 604-686. | 4,581 | *x702 | 448 | 10/16/31 | 38 9 | Tr | 22 | 174 | 9 | 42 | 7 | 42 | 15 | 21 |
| D 1106c F 24 | San Antonio Water Co., Well 3, E. of Upland; 440 feet S. of Irth St.; 1250 feet E. of Cucamonga Ave.; 635 feet E. and 190 feet N. of SW. corner of Lot 383, Ontario Colony Lands. Use: Irrigation. Casings: 12 inches. | 4,577C | 1,490 | *x928 | (e) 26/29 | Nov. 1918 | - | 16 | 258 168 | 5 | 17 16 | 4 | 38 | 12 | c13 |

TABLE 17. WELLS IN CHINO AREA—Continued

| Well number | Location and description | Location number | Total elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific conductance at 25°C. | Constituents (parts per million) | | | | | | | | |
|--------------|--|-----------------|---------------------------|-----------------------------|-------------------|------------|-------------------------------|----------------------------------|---------------------|----------------------|------------------------------------|-------|-------|----------|-------|----|
| | | | | | | | | Boron ppm | Barium Na x 100 ppm | Ca + Mg Na x 100 ppm | Sulfate radicle (SO ₄) | | | | | |
| D 1167 F 22 | Cucamonga Water Co. Well 2, E. of Upland; 925 feet N. of Base Line Ave., 500 feet E. of Vineyard Ave. Use: Irrigation and domestic. (Cased: 174-212; 218-240; 255-474; 502; 510; 538). | 4597 | 1,465 | *N538 | 609 | 12/16/31 | 42.5 | 0.01 | 30 | 177 | 9 | 61 | 4 | 45 | 13 | 33 |
| D 1167m F 22 | Foothill Irrigation Co., Well 1, E. of Upland; 100 feet S. of Highland Ave., 450 feet W. of Archbold Ave. Use: Irrigation. (Cased: 161-168; Perforated 224-750). | 18506H | 1,498 | *N762 | (r) | Oct., 1918 | ----- | ----- | 9 | 174 | 12 | 25 | 0 | 43 | 17 | 8 |
| B 1167o F 22 | Citrus Water Co. Well 1, N. of Alta Loma; 120 feet S. of 19th St., Casua, 321 acres. | 18506B | 1,492 | *500 | 607 | 12/16/31 | 37.4 | 0.08 | 30 | 171 | 6 | 36 | 2 | 44 | 9 | 30 |
| D 1168d F 22 | Foothill Irrigation Co., Well 5, N. of Alta Loma; 600 feet N. of Highland Ave., 30 feet E. of Archbold St. Use: Irrigation. Casua; 20 inches. Perforated 288-046; 666-740; 820-867 906-991. | 18506L | 1,572 | *1,110 | 457 | 11 9 31 | 39.9 | 0.06 | 30 | 184 | 5 | 42 | 4 | 42 | 12 | 21 |
| D 1169e F 22 | Shortwell Mutual Water Co., Well 2, N.E. of Alta Loma 0.21 mile E. of Turner (Ifernosa) Ave., 20 feet N. of Anza St.; 1/4 acre. Irrigation and domestic. (Cased: 20 m. i.e. Perforated 265-452; 462-468; 515-533; 605-620; 624-642). | 18514A | 1,590 | 750 | 613 | 12/17/31 | 30.0 | Tr. | 15 | 180 | 6 | 11 | 1 | 43 | 10 | 13 |
| B 1169h F 22 | Schowalter Mutual Water Co., Well 1, NE. of Alta Loma; 0.1 mile E. of Hermosa Ave. (Turner Ave.), 0.24 mile N. of Anza St. Use: Irrigation and domestic. (Cased: 140-160; Gravel: 350-375; 380-420; 420-500; 505-588). | 18514A | 1,945 | *618 | 612 | 12/17/31 | 30.1 | 0.02 | 15 | 174 | 7 | 13 | 1 | 42 | 10 | 13 |
| D 117 F 22 | Foothill Irrigation Co., Well 2, E. of Upland; 100 feet S. of Lemon St., 50 feet E. of Archbold Ave. Use: Irrigation and domestic. | 18506S | 1,588 | *500 | (r) | Oct., 1918 | ----- | ----- | 48 | 156 | 12 | 13 | 0 | 4 | 8 | 18 |
| D 117 F 22 | Foothill Irrigation Co., Well 3, E. of Upland; 20 feet E. of Archbold Ave., 25 feet N. of 19th St. Use: Not used, formerly irrigation. | 18506D | 1,491 | *500 | (r) | Oct., 1918 | ----- | ----- | 25 | 168 | 9 | 17 | 30 | 38 | 9 | 20 |
| B 1153 F 24 | John Egleton, NW. of Fontana; 450 feet E. of San Sevan Rd. (the oak Ave.), 0.45 mile N. of Huelan I Ave. Use: Domestic. Dig well. | 18625 | 1,482 | 300 | 611 | 12/17/31 | 30.1 | 0.04 | 14 | 192 | 6 | 2 | 1 | 47 | 9 | 11 |
| D 1158 F 24 | T. S. N. Malou, NW. of Fontana, 0.26 mile N. of Highland Ave., 0.49 mile E. of Lytle Creek Road; 40 feet N. of Hollywood Ave., 30 feet W. of Fontana Ave., 60 feet N. of Highland Ave., 16 inches. Perforated 605-778; 792-819; 855-893. | 18645 | 1,537 | *N115 | 603 | 12 15 31 | 34.8 | 0.05 | 19 | 207 | 7 | 4 | 4 | 47 | 10 | 17 |
| D 1161 F 25 | Fontana Union Water Co., F. U. Well 27, Intake Well, NW. of San Bernardino; 150 feet N.E. of Lytle Creek Canyon Read. 1.26 miles NW. from Cajon Creek Road in Lytle Creek Canyon. Use: Domestic. Casing: 20 inches. (Cased: 170-208; 212-221). | 18459 | 2,244 | *113 | 1305 | 9/ 2/32 | 29.2 | 0.02 | 12 | 156 | 2 | 20 | 1 | 41 | 12 | 10 |
| D 1170 F 25 | Fontana Union Water Co., F. U. Well 19, N. of Fontana; 300 feet SW. of Riverside Ave., 1.82 miles NW. of Linden Ave. Use: Domestic. Casing: 20 inches. (Cased: 170-208; 212-221). | 18607 | 1,853 | *N325 | 606 | 12/15/31 | 30.5 | 0.09 | 13 | 186 | 6 | 7 | 0 | 44 | 10 | 11 |
| D 1181 F 26 | W. B. Brageton, NE. of Fontana; 0.36 mile N. of Highland Ave., 50 feet W. of Linden Ave. Use: Irrigation. Casing: 16 inches. Perforated 440-495; 530-555; 608-623; 690-700; 720-730; 750-773. | 18605 | 1,501 | *N773 | 1431 | 9 23 32 | 31.0 | 0.06 | 13 | 171 | 4 | 10 | 1 | 42 | 10 | 10 |
| D 1181 F 26 | Fontana Union Water Co., F. U. Well 25, or T & M. Well 1, NW. of San Bernardino; 0.38 mile SE. of Riverside Ave., from point 0.15 mile NW. of Fontana power house. Use: Irrigation and domestic. Casing: 20 inches. (Cased: 170-208; 212-221). | 18703A | 1,597 | *N718 | 619 | 1/ 5/32 | 28.0 | 0.04 | 16 | 159 | 0 | 15 | 1 | 40 | 6 | 11 |
| D 1181 F 26 | Fontana Union Water Co., Plant 1, S. of Colton; 750 feet S. of East N St., 350 feet W. of Mt. Vernon Ave., 40 feet E. of Riverside Ave. (casing: 170-208; 212-221). (Cased: 170-208; 212-221). | 17984 | 1,596 | *N407 | 1320 | 9/ 2/32 | 30.9 | 0.12 | 12 | 168 | 4 | 21 | 1 | 46 | 10 | 10 |
| I-87-H-27 | Riverside Water Co., Plant 1, S. of Colton; 750 feet S. of East N St., 350 feet W. of Mt. Vernon Ave., 40 feet E. of Riverside Ave. (casing: 170-208; 212-221). (Cased: 170-208; 212-221). | 17984 | *180 | (r) | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 8 / 1/30 | ----- | 23 |

TABLE 17. WELLS IN CHINO AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|---------|----------------------------------|---|----------------|----------------|-------------------------------------|---|
| | | | | | | | Boron ppm | Specific electrical conductivity ($K \times 10^6$ at 25°C) | Boron Na x 100 | Percent sodium | Nitrate radicle (NO_3^-) | Sulphate radicle (SO_4^{2-}) |
| E-87a-H-27 | Riverside Water Co., Plant 2, S. of Colton; 1350 feet S. of East N St., 800 feet W. of Mt. Vernon Ave., 20 feet E. of Riverside Water Co.'s wooden flume across Santa Ana River, 60 feet S. of north end of flume. Use: Irrigation. Casing: 20 inches. Perforated 100°-24°, 240°-334°. | 17954A | 925 | *403 | (*) | 8/ 1/30 | ..... | ..... | ..... | 30 | ..... | ..... |

* Log in files of Division of Water Resources.

x Water level in files of Division of Water Resources.

a Includes small equivalent quantity of Carbonate (CO_3^{2-}).b Sulphate (SO_4^{2-}) determined by turbidity method.

c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

d Analysis by United States Department of Agriculture, Ruidoux Laboratory, Riverside, California.

e Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.

f Analysis by Charles Junior College, Ontario, California.

g Analysis by University of California Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

h Analysis by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22246, Corona Foothill Lemon Co., a Corp., vs. C. L. Lullbride, et al. in the Superior Court of the State of California, and for the County of Riverside.

TABLE 18. WELLS IN RIVERSIDE AREA

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Per cent sodium $Na \times 100$ $\frac{Ca + Mg}{Ca + Na}$ | (Constituents (parts per million) | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|------------|--|---|-----------------------------------|-----------------------------|------------------------------|------------------|--------------------|-----------------|
| | | | | | | | | | Boron ppm | Chloride radicle (Cl^-) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| E-68-I-26 | Elliott Springs, NE of Riverside; 350 feet SE of Main St., 140 feet NE of Strong St. Use: Swimming pool supply. | 17639C | ..... | 375 | (e) | 6/ 6/30 | 51.0 | 0.70 | 90 | 107 | 96 | 54 | 5 | 3 |
| E-69-I-26 | Riverside Water Co., Spanish Town Well, NE, of Riverside; 135 feet N. of Chase Road, extended, 130 feet W. of Orange St. At edge of Santa Ana River bottom. Use: Irrigation. | 17648 | 835 | x..... | (d) | Feb, 1920 | ..... | ..... | 28 | 220 | 18 | 43 | 3 | 53 |
| E-69a-I-26 | City of Riverside, Russell Well, NE, of Riverside; 270 feet NW of Orange St., 60 feet NE, of Pavaeta Line. Use: Municipal. Casing: 20 in. I.D., 20 ft. I.L.S., Perforated 67 ft. 32 ft. | 17648A | 840 | *x353 | (e) | 8/13/31 | 34.4 | Tr. | 36 | 207 | 6 | 17 | 3 | 39 |
| E-74-I-27 | Joe Trujillo, NE, of Riverside; 0.25 mile E. of Chase Road, 0.13 mile SW. of La Cadena Ave.; 75 feet N. of Riverside Water Co. Canal. Use: Domestic. Casing: 6 inches. | 17658D | 882 | x80 | 1210 | 7/28/32 | 53.8 | 0.12 | 27 | 235 | 27 | 43 | 6 | 61 |
| E-74d-I-27 | Riverside Water Co., Highgrove pump, NE, of Riverside; 500 feet S. of Villa St., 100 feet W. of Iowa Ave., 35 feet N. of Riverside Water Co. Canal. Use: Irrigation. Casing: 20 inches. Perforated 40-64; 104-134; 150-190; 225-240; 324-334; 370-380. | 17659 | 890 | *402 | (d) | Mar, 1929 | ..... | ..... | 340 | 60 | 25 | 25 | 25 | 25 |
| E-74e-I-27 | Riverside Water Co., Palmvita Well, NE, of Riverside; 85 feet SE, of La Cadena Drive, 375 feet NE, of Oxford St., 38 feet NW, of Riverside Water Co. canal. Use: Irrigation. Gravel 38-42, 100-125, 128-130, 145-160, 175-180, 190-200, 253-265, 310-315. | 17659 | 885 | *393 | (d) | 8/ 1/30 | ..... | ..... | 51 | ..... | ..... | ..... | ..... | ..... |
| E-74g-I-27 | University of California, Highgrove Well, N. of Highgrove; 390 feet S. of County Line Road, 180 feet E. of S. P. R. R. main line into Highgrove, 70 feet E. of east R. R. property line. Use: Irrigation. Perforated 135-320. | 17668 | 957 | *320 | (d) | Jan, 1919 | ..... | ..... | 32 | 235 | 31 | 41 | 4 | 64 |
| E-76a-H-27 | La Sierra Water Co., Well 1, S. of Colton; 600 feet S. of the intersection of S. 3d St. and La Cadena Drive, 250 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Perforated 30-141. | 17665A | 899 | *194 | (d) | 8/15/28 | ..... | ..... | 26 | 271 | 42 | 53 | ..... | 54 |
| E-76b-H-27 | La Sierra Water Co., Well 6, S. of Colton; 730 feet S. of the intersection of S. 3d St. and La Cadena Drive, 310 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Gravel 0-200. | 17665B | 900 | *200 | (d) | 8/18/31 | 68.1 | 0.68 | 33 | 268 | 50 | 54 | ..... | 54 |
| E-76c-H-27 | La Sierra Water Co., Well 2, S. of Colton; 900 feet S. of the intersection of S. 3d St. and La Cadena Drive, 300 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Perforated 50-158; 170-186. | 17665C | 903 | *x170 | (d) | Sept, 1918 | ..... | ..... | 28 | 268 | 52 | 52 | ..... | 52 |
| E-76d-H-27 | La Sierra Water Co., Well 5, S. of Colton; 770 feet S. of the intersection of S. 3d St. and La Cadena Drive, 670 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Perforated 50-158; 170-186. | 17665D | 900 | *191 | (d) | 9/15/31 | 60.8 | 0.07 | 31 | 268 | 71 | 48 | 13 | 77 |
| E-76e-H-27 | La Sierra Water Co., Well 3, S. of Colton; 1570 feet S. from intersection of S. 3d St. and La Cadena Drive, 25 feet W. of La Cadena Drive. Use: Irrigation. Perforated 40-320. | 17665E | 904 | *x240 | (d) | Sept, 1918 | ..... | ..... | 46 | 284 | 156 | 5 | 3 | 100 |
| E-77-I-27 | Temescal Water Co., Palm Ave. Plant, S. of Colton; 142 feet S. of Palm Ave., 182 feet E. of intersection of La Cadena Drive and Palm Ave. Use: Irrigation. Casing: 16 inches. Perforated 127-237, 247-351. | 17666 | 956 | *x372 | (d) | Aug, 1928 | ..... | ..... | 29 | 235 | 18 | 24 | 5 | 57 |
| E-77b-I-27 | Merifield Water Co., S. of Colton; 135 feet W. of La Cadena Drive, 12 feet S. of Palm Ave. Use: Irrigation. Casing: 12 inches. | 17666B | 950 | 200 | (d) | Sept, 1918 | ..... | ..... | 25 | 247 | 21 | 40 | 46 | 73 |
| E-77e-I-27 | Riverside Highland Water Co., County Line Well, N. of Highgrove; 100 feet N. of Main St., 60 feet W. of A. T. & S. F. Ry. Use: Irrigation. Casing: 20 inches. Perforated so 227. 282-340, 362-450. | 17667 | 942 | *420 | (d) | 6/24/29 | ..... | ..... | 22 | 280 | 40 | 53 | ..... | 72 |

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-3}$ at 25°C) | Constituents (parts per million) | | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|------------|--|---|--------------|-----------------------------------|-------------------------------------|---------------------------------|------------------------------|----------------|-------------|
| | | | | | | | Per cent sodium Na x 100 Na + Mg + Na | Boron ppm | Bear-bonate radicle (HCO_3^-) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) |
| E-80-H-27 | Riverside Water Co., Plant 5, S. of Colton; 3500 feet S. of East N. St., 1750 feet W. of Mt. Vernon Ave.; 135 feet E. of Riverside Water Co. wooden flume, 250 feet S. of Plant 2. In Santa Ana River bottom. Use: Irrigation. Casing: 20 inches. Perforated 17-300. | 17974 | 915 | *327 | (e) | 8/ 1/30 | ..... | ..... | ..... | 28 | ..... | ..... | 101 | |
| E-81b-H-27 | La Sierra Water Co., Well 7, S. of Colton; 820 feet S. of intersection of La Cadena Drive and S. 3d St., 1260 feet E. of La Cadena Drive. Use: Irrigation. Casing: 20 inches. Perforated 202-211; 17-257; 307-308. | 17975B | 905 | *363 | (d) | 2/25/20 | ..... | ..... | 34 | 268 | 221 | 94 | 25 | 122 |
| E-82-I-27 | Gage Canal Co., De Berry Plant, S. of Colton; 782 feet S. of Palm Ave., 679 feet W. of Michigan Ave. Use: Irrigation. Casing: 20 inches. Perforated 152-188; 197-209; 218-258. | 17976 | 970 | *266 | (d) | Oct., 1926 8/15/28 Sept., 1930 1/373 | ..... | ..... | 32 | 231 | 37 | 53 | 54 | 17 |
| E-87b-H-27 | Riverside Water Co., Plant 3, S. of Colton; 2400 feet S. of East N. St., 1350 feet W. of Mt. Vernon Ave.; 37 feet E. of Riverside Water Co. wooden flume, 1250 feet S. of Plant 2. In Santa Ana River bottom. Use: Irrigation. Casing: 20 inches. Perforated 68-88; 108-220. | 17984B | 919 | *530 | (d) | 8/ 1/30 | ..... | ..... | 68.6 | 0.18 | 31 | 277 | 44 | 14 |
| E-88b-H-27 | Vista Grande Water Co., S. of Colton; 1490 feet S. of Washington St., 700 feet E. of Mt. Vernon Ave. Use: Irrigation. Casing: 10 inches. | 17985B | 630 | 172 | (e) | 9/25/26 | ..... | ..... | 31 | 281 | 28 | 48 | ..... | 62 |
| E-88c-H-27 | Vista Grande Water Co., S. of Colton; 1450 feet S. of Washington St., 750 feet E. of Mt. Vernon Ave. Use: Irrigation. Casing: 20 inches. Gravel 42-54 | 17985C | 930 | *175 | (d) | June, 1929 | ..... | ..... | ..... | 260 | 95 | ..... | ..... | 145 |
| E-91-H-27 | Riverside Highland Water Co., Delta Well 3, SE of Colton; 2100 feet E. of Mt. Vernon Ave., 1250 feet N. of Washington St. Use: Irrigation. Casing: 20 inches. Perforated 34-64; 70-110; 150-166. | 17994 | 938 | *182 | (d) | 7/ 2/28 | ..... | ..... | 52 | 360 | 57 | 68 | ..... | 74 |
| E-91a-H-27 | Riverside Highland Water Co., Delta Well 4, SE. of Colton; 2300 feet N. of Washington St., 2700 feet E. of Mt. Vernon Ave. Use: Irrigation. Casing: 20 inches. Perforated 1-64; 104-134; 150-190; 228-240; 324-334; 370-380. | 17994A | 942 | *94 | (e) | 7/ 2/28 | ..... | ..... | 47 | 345 | 47 | 68 | ..... | 68 |
| E-92-H-27 | Riverside Highland Water Co., Steam plant, SE. of Colton; 500 feet E. and 500 feet S. of the N. $\frac{1}{4}$ corner of Sec. 33, T. 1S., R. 4W., S. B. & M. Use: Boiler feed water. | 17995 | 955 | ..... | (e) | 6/ 5/28 | ..... | ..... | 36 | 280 | 34 | 49 | ..... | 61 |
| E-160-J-24 | W. J. Hole Estate, NW. of Arlington, center of NW. $\frac{1}{4}$, Sec. 34, T. 2S., R. 6W., S. B. & M. Use: Not used since 1923, caved in. | 16894 | ..... | ..... | (d) | 1916 | ..... | ..... | 36 | 246 | 234 | 128 | 43 | 112 |
| E-161-K-24 | J. C. Duerksen, Old Well, W. of Arlington; 150 feet W. of Pierce St., T. 3S., R. 6W. ^a S. B. & M. Use: Irrigation and domestic. Casing: 12 inches. | 16899 | ..... | ..... | (d) | Jan. 1931 | ..... | ..... | 103 | 135 | ..... | ..... | ..... | 28 |
| E-164d-K-24 | J. C. Duerksen, New Well, W. of Arlington; 160 feet NE. of Holden Ave., 0.25 mile NW. of Hole Ave. Use: Drilling well, not yet used. Lab. No. 925 was sampled from depth of 70 feet, and Lab. No. 929 from depth of 35-45 feet, where break in casing allowed water from old well to flow in, according to owner. Lab. No. 930 and No. 931 were from depths of 50-55 feet and 63-70 feet, respectively. | 16917A | 730 | *40 | (e) | 7/ 8/31 5/ 4/32 | 205 161 | 0.36 0.27 | 56 53 | 372 400 | 171 247 | 134 | 27 | 102 |
| E-164e-K-24 | J. C. Duerksen, New Well, W. of Arlington; 160 feet NE. of Holden Ave., 0.25 mile NW. of Hole Ave. Use: Drilling well, not yet used. Lab. No. 925 was sampled from depth of 70 feet, and Lab. No. 929 from depth of 35-45 feet, where break in casing allowed water from old well to flow in, according to owner. Lab. No. 930 and No. 931 were from depths of 50-55 feet and 63-70 feet, respectively. | 16917A | 730 | ..... | ..... | ..... | ..... | ..... | ..... | 424 | 446 | ..... | ..... | 210 |
| E-165-K-24 | Mr. J. R. Cardwell, NE. of Corona; 15 feet N. of Gramercy St., 0.18 mile W. of Holden Ave. Use: Irrigation. Casing: 7 inches. Bailey No. 3610A. | 16907B | 755 | x61 | (f) | 11/24/31 | 182 | ..... | ..... | ..... | 258 | ..... | ..... | 269 |
| E-165a-K-24 | Southern California Junior College, Well 4, SW. of Arlington; 0.47 mile NW. of Magnolia Ave., 0.27 mile NE. of Pierce St. Use: Irrigation. Casing: 16 inches. Bailey No. 3615A. | 16909 | 695 | x150 | (d) (e) | Dec. 1930 11/19/31 | ..... | ..... | 32 | 320 174 | 115 60 | 169 | ..... | 68 |
| E-165a-K-24 | Southern California Junior College, Well 1, SW. of Arlington; 0.47 mile NW. of Magnolia Ave., 0.23 mile NE. of Pierce St. Use: Irrigation. Casing: 15-27-35-54, -1150. | 16909A | 694 | *150 | (d) | Dec. 1930 | ..... | ..... | 10 | 256 | 138 | ..... | 24 | 162 |

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity (K x 10 ⁻³ at 25°C) | Per cent sodium Na x 100 Ca + Mg + Na | Constituents (parts per million) | | | | | |
|-------------|---|-----------------|---------------------|---|---|----------------------------------|---|--|----------------------------------|---|------------------------------------|------------------------------------|----------------------------|----------------|
| | | | | | | | | | Boron ppm | Bicarbonate radicle (HCO ₃) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Chloride radicle (Cl) | Magnesium (Mg) | Sodium (Na) |
| E-165d-K-24 | Alvord Mutual Water Co., Plant 1, SW. of Arlington; 200 feet NW. of Magnolia Ave.; 15 feet N.W. of Golden Ave.; 20 feet SW. of new well. Use: Irrigation. Bailey No. 3614A. | 16919 | 699 | ----- | (e) 10/5/31 11/30/31 | 91 98 | ----- | 40 | 244 42 | 96 275 | 72 103 | 70 71 | 70 74 | 16 17 |
| E-160-J-24 | Twin Buttes Water Co., Plant 5, NW. of Arlington; 6,150 feet northerly at right angles to Arlington Ave.; 5,600 feet northerly from intersection of Pedley Road and Jurupa Ave. On S. side of Santa Ana River; 60 feet S. of channel. Use: Irrigation. | 16923 | 655 | ----- | (e) 8/5/28 Sept. 1928 | ----- | 17 29 | 274 275 | 88 96 | 49 106 | 106 106 | 106 90 | 16 25 | 132 142 |
| E-167-J-24 | Mrs. E. S. Freeman, NW. of Arlington; 600 feet W. of Tyler Ave.; 300 feet N. of Arlington Ave. Use: Domestic and irrigation. Cas. 550 feet SW. of Tyler Ave. Use: Domestic and irrigation. Casing: Dug well. | 16925 | 800 | 68 | 946 | 5/13/32 | 121 | 0.16 | 29 | 238 | 220 | 51 | 18 | 45 |
| E-168-K-24 | Mrs. M. C. Baile, W. of Arlington; 300 feet NW. of Cook St., 675 feet SE. of Magnolia Ave.; 20 feet W. of Riverside City Limits. Use: Irrigation. Casing: 12 inches. | 16927 | 755 | 48 | 947 | 5/13/32 | 142 | 0.16 | 39 | 146 | 295 | 75 | 35 | 89 |
| E-169a-K-24 | Mrs. Marie Bresson, SW. of Arlington; 1,280 feet NE. of Folk St., 675 feet SE. of Magnolia Ave.; 20 feet W. of Riverside City Limits. Use: Irrigation. Casing: 15 inches. Perforated 66-80; 90-112. Samples in August and September, 1918, are composite of both wells, which are same depth and perforated in same strata. | 16939A | 732 | x145 (e) Nov. 1924 July 1930 | ----- | ----- | 34 | 152 240 | 142 88 | 90 | ----- | 76 | 21 | 165 |
| E-169b-K-24 | Daly Water Co., Inc., Well 1, SW. of Arlington; 1,380 feet SW. of Magnolia Ave.; 1,240 feet SW. of Folk St.; 25 feet southeasterly from Well 2. Use: Irrigation. Casing: 15 inches. Perforated 66-80; 90-112. Samples in August and September, 1918, are composite of both wells, which are same depth and perforated in same strata. | 16939B | 709 | *112 (e) Aug. 1918 Oct. 1918 | ----- | 40 43 | 250 244 | 215 230 | 88 88 | 88 88 | 32 32 | 92 90 | 36 32 | 117 124 |
| E-169i-K-24 | Owner unknown. SW. of Arlington; 650 feet NE. of Folk St.; 800 feet SE. of Magnolia Ave. Open casing in back of small structure. Use: Irrigation. Casing: 8 inches. | 16939 | 730 | 108 (e) 1920 | ----- | ----- | 37 | 207 | 208 | 100 | 42 | 135 | 34 | 119 |
| E-169k-K-24 | W. J. Hole, SW. of Arlington; 340 feet NW. of Magnolia Ave.; 30 feet SW. of Folk St. Use: Irrigation. Casing: 20 inches. Perforated 55-97. Lab. Nos. 1721 and 1722 were sampled from sand stratum at depths of 13-24 feet and 29-55 feet, respectively. Lab. No. 1723 from gravel stratum at depth of 58-95 feet. | 16939II | 717 | *108 (e) 1720 1721 1722 1723 1797 | 2/4/33 2/4/33 2/4/33 2/6/33 2/27/33 | 103 102 124 113 83.4 | 0.32 0.36 0.36 0.34 0.28 | 387 375 375 473 473 | 82 84 84 415 415 | 7 102 102 77 77 | 7 7 7 22 22 | 76 30 30 56 56 | 30 30 30 17 17 | 132 94 |
| E-170-J-25 | F. H. Kochsmaier, G. K. Sanborn Well 1, N. of Arlington; 60 feet S. of Jurupa Ave.; 1/2 mile E. of Van Buren St. Use: Domestic. Casing: 3 1/2" x 5" dug well. | 16953 | 760 | x56 (e) 5/11/32 | 123 | 0.18 | 38 | 311 | 176 | 57 | 27 | 83 | 41 | 104 |
| E-170h-J-25 | Arlington Mutual Water Co., Plant 4, N. of Arlington; 1,750 feet E. of Van Buren St., extended. 2,650 feet N. of Jurupa Ave., on S. bank of Santa Ana River. Use: Irrigation. Pump draws from bottom of four wells drilled to rock along river bed. | 16953A | 695 | 45 (e) 5/13/32 | 89.5 | 0.12 | 32 | 311 | 92 | 60 | 6 | 94 | 19 | 63 |
| E-172c-K-25 | W. A. Caldwell, N. of Arlington; 0.20 mile E. of Van Buren St., 25 feet S. of Arlington Ave. Use: Domestic. | 16945B | 735 | 20 (e) 5/13/32 | 226 | 0.48 | 64 | 631 | 343 | 139 | 35 | 68 | 66 | 355 |
| E-173a-K-25 | Arlington Mutual Water Co., Plant 1-A, NE. of Arlington; 0.7 mile NE. of Van Buren St., 100 feet N. of California Ave., U.S.C. Irr. station. | 16956A | 750 | ----- | (e) 12/15/32 | 163 | 0.23 | 30 | 279 | 328 | 79 | 22 | 157 | 36 |
| E-173b-K-25 | Arlington Mutual Water Co., Plant 1-B, NE. of Arlington; 0.8 mile NE. of Van Buren St., 100 feet N. of California Ave., U.S.C. Irr. station. | 16956B | 750 | ----- | (e) 12/15/32 | 149 | 0.21 | 34 | 290 | 315 | 81 | 27 | 150 | 31 |
| E-173c-K-25 | Arlington Mutual Water Co., Plant 1, NE. of Arlington; 1,330 feet SW. of Monroe St., 415 feet NW. of California Ave., U.S.C. Irr. station. 18 wells in open pit, 4.3 x 473.0' x 16'. Use: Not used, formerly irrigation. | 16956 | 750 | x-- (e) 1924 | ----- | ----- | 33 | 265 | 308 | 84 | ----- | 150 | 32 | 145 |
| E-174-K-25 | W. A. Errington, NW. of Arlington; 135 feet SW. of Van Buren St., 36 feet NW. of California Ave. Use: Irrigation. Casing: 12 inches. | 16947 | 763 | x90 (e) 5/13/32 | 112 | 0.27 | 51 | 350 311 | 159 135 | 78 | 27 | 77 | 19 | 130 |
| E-174c-K-25 | N. N. Watts, N. of Arlington; 615 feet SW. of Jackson St., 46 feet NW. of Garfield St., Use: Irrigation. Casing: 16 inches. Perforated 47-74; 80-98; 107-116. | 16957 | 745 | *116 (e) Sept. 1925 | ----- | ----- | ----- | ----- | 160 | ----- | ----- | ----- | ----- | ----- |
| E-174e-K-25 | A. Harris, N.E. of Arlington; 300 feet SW. of Jackson St., 150 feet NW. of Magnolia Ave. Use: Irrigation and stock. Casing: 7 inches. | 16957B | 733 | x72 1699 | 1/30/33 | 90.5 | 0.25 | 57 | 265 | 98 | 62 | 22 | 50 | 18 |
| E-174f-K-25 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 121 |

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

| Well number | Location and description | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | | | |
|-------------|---|-----------------------------|-------------------|-------|---|-------------|--------------------------------------|------------------------------------|--|-------------------------------------|------------------------------|--------------------------------|--------------------------|-----------------|-------|-------|-------|
| | | | | | Specific electric conductivity ($\text{K} \times 10^4$ at 25°C) | Boron (ppm) | Barium carbonate (BaCO_3) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca^{2+}) | Magnesium (Mg^{2+}) | Sodium (Na^+) | Per cent sodium | | | |
| E-174f-K-25 | B. Morris, NW of Arlington; 400 feet SW of Van Buren St., 350 feet SE of California Ave. Use: Domestic and stock. | 16947C | 760 | 30 | 949 | 5/13/32 | 151 | 0.28 | 44 | 324 | 208 | 118 | 57 | 116 | 35 | 157 | |
| E-175-K-24 | Citizens Domestic Water Co., Plant 1, Arlington; 150 feet N. of Hole Ave., 200 feet NW of Magnolia Ave. Use: Irrigation. | 16948 | 756 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-175a-K-24 | Citizens Domestic Water Co., Plant 2, Arlington; 250 feet N. of Hole Ave., 300 feet NW of Magnolia Ave.; 80 feet N. of Plant 1. Use: Irrigation. Perforated 110 ft. Bore, No. 36130. | 16948A | 756 | *165 | (c) | 10/2/31 | 99 | ..... | 42 | 244 | 125 | 63 | 16 | 77 | 15 | 165 | |
| E-175f-K-24 | Chas. H. McCaugh, Arlington; 350 feet NW. of Magnolia Ave., 350 feet N. of Isle Ave. Use: Irrigation. | 16948D | 757 | 168 | 765 | 2/12/32 | 83.2 | 0.22 | ..... | 268 | 107 | 85 | 72 | 76 | 18 | 89 | |
| E-176-K-24 | Ellis M. Land, S. of Arlington; 300 feet NW. of Indiana Ave., 90 feet NE. of Tyler Ave. Use: Domestic. Casing: 7 inches. | 16949D | 762 | x125 | 759 | 2/26/32 | 94.3 | 0.17 | 35 | 233 | 123 | 76 | 23 | 72 | 35 | 81 | |
| I-176a-K-24 | John A. Hanner, SW. of Arlington; 50 feet SW. of Tyler St., 1,250 feet SE. of Magnolia Ave. Use: Irrigation. | 16949A | 750 | ..... | ..... | ..... | ..... | ..... | ..... | 268 | 60 | ..... | ..... | ..... | ..... | ..... |  |
| I-176b-K-24 | F. J. Grasser, SW. of Arlington; 160 feet SE. of Indiana Ave., 1,310 feet NE. of Folk St. Use: Irrigation. Gravel 83-93. | 16949B | 755 | *103 | (c) | 8/1/30 | ..... | ..... | 28 | 305 | 128 | 155 | ..... | 120 | 30 | 175 | |
| E-176c-K-24 | F. B. Cocke, SW. of Arlington; 10 feet SE. of Indiana Ave., 1,180 feet NE. of Folk St. Use: Irrigation. Gravel 83-103. | 16949C | 755 | 775 | ..... | 4/23/30 | ..... | ..... | 39 | 315 | 128 | 92 | ..... | 80 | 31 | 145 | |
| E-176d-K-25 | O. C. McNicholl, Bedlah Springs Well, S. of Arlington; 200 feet SW. of Hughes Place, 300 feet SE. of Indiana Ave. Use: Commercial mineral water. Flows. Pumped when bottling water. | 16949 | 775 | ..... | ..... | (c) | 12/5/28 | 59.5 | 0.54 | 100 | 64 | 101 | 80 | 0 | 0 | 125 | |
| E-176e-K-25 | R. L. Crappin, S. of Arlington; 60 feet SW. of Harrison St., 230 feet SE. of Fox St. Use: Irrigation. | 16950 | 800 | x250 | ..... | ..... | 760 | 2/20/30 | 59.5 | 0.50 | 90 | 64 | 76 | 0 | 0 | 116 | |
| I-176a-K-24 | Frank Hambleton, SW. of Arlington; 200 feet SW. of Tyler St., 0.25 mile SE. of Magnolia Ave. Use: Domestic. | 16949E | 750 | 90 | 1698 | 1/30/33 | 64.6 | 0.19 | 50 | 226 | 55 | 50 | 9 | 40 | 17 | 78 | |
| E-176b-K-24 | Dave Sampson, SW. of Arlington; 150 feet SE. of Indiana Ave., 250 feet NE. of Tyler St. Use: Domestic. | 16949F | 762 | 100 | 1697 | 1/30/33 | 94.2 | 0.17 | 38 | 201 | 124 | 84 | 11 | 59 | 37 | 84 | |
| E-177a-J-25 | M. H. Payton, SW. of Riverside; 100 feet S. of Jurupa Ave., 300 feet E. of Leach St. Use: Irrigation. Casing: 16 inches. Perforated 16 1/2 in., 16 11/16 in. | 16973A | 770 | 85 | 958 | 5/11/32 | 118 | 0.26 | 49 | 500 | 69 | 75 | 13 | 72 | 31 | 135 | |
| E-178a-J-25 | E. G. Harris, SW. of Riverside; 630 feet N. of Central Ave., 70 feet E. of Leach St. Use: Irrigation. Casing: 16 inches. Perforated 16 1/2 in., 16 11/16 in. | 16974A | 778 | *117 | 957 | 5/13/32 | 129 | 0.22 | 38 | 336 | 194 | 70 | 18 | 106 | 38 | 117 | |
| E-178b-J-25 | De Lane Land & Water Co., NE. of Arlington; 50 feet W. of Phoenix Ave., 600 feet S. of Central Ave. Use: Irrigation and domestic. | 16974 | 780 | 70 | (c) | 8/10/24 | | 0.25 | 49 | 420 | 160 | 83 | 213 | | 98 | 20 | 146 |
| E-178d-J-25 | F. G. Wayman, NE. of Arlington; 150 feet E. of Phoenix Ave., 1,000 feet S. of Central Ave. Use: Domestic. | 16974D | 180 | 80 | 955 | 5/13/32 | 149 | 0.28 | ..... | 387 | 220 | ..... | ..... | ..... | ..... | ..... |  |
| E-178e-K-25 | Otto Martin, NE. of Arlington; 50 feet N. of Central Ave., 300 feet W. of Leach St., 1,000 feet W. of Phoenix Ave. Use: Domestic and part. | 16974E | 790 | 65 | 954 | 5/13/32 | 138 | 0.20 | 35 | 369 | 227 | 41 | 18 | 109 | 49 | 117 | |
| E-179-K-25 | Owner unknown, NE. of Arlington; 20 feet S. of Arlington Ave., 30 feet N. of Adams St. Use: Domestic. | 16965 | 790 | x40 | 952 | 5/13/32 | 116 | 0.18 | 47 | 400 | 122 | 61 | 29 | 62 | 41 | 133 | |
| E-180-K-25 | E. R. Murphy, NE. of Arlington; 160 feet NW. of California Ave., 355 feet N. of Monroe St. Use: Not used. Casting: 12 inches. Lab. No. 710 was sampled from water surface and Lab. No. 761 from depth of 45 feet. | 16966A | 755 | x50 | (c) | 1916 | 2/15/32 | 48.4 | 0.12 | 76 | 517 | 171 | 84 | 24 | 35 | 20 | 143 |
| E-180a-K-25 | J. C. Luther, NE. of Arlington; 1,215 feet SW. of California Ave., 655 feet NE. of Monroe St. Use: Not used. Casting: Dug well. | 16966B | 755 | | (c) | 1916 | 3/2/32 | 49.4 | 0.09 | 39 | 143 | 66 | 36 | 2 | 37 | 12 | 41 |
| E-180b-K-25 | Clyde Spratt, NE. of Arlington; 130 feet SE. of California Ave., 920 feet SW. of Monroe St. Use: Domestic and irrigation. Casting: 10 inches. | 16966C | 750 | *84 | 1087 | 6/23/32 | 145 | 0.20 | | 46 | 384 | 142 | 86 | | 71 | 37 | 194 |
| E-180c-K-25 | W. V. Naught, NE. of Arlington; 10 feet SW. of Monroe St., 10 feet NW. of California Ave. Use: Irrigation. Casing: 14 inches. Gravel 27-70. | 16966C | 750 | | (c) | 8/28/24 | | | 46 | 269 | 500 | 126 | 31 | 173 | 57 | 127 | |

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^6$ at 25°C) | Constituents (parts per million) | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|---------------------------------|---|---|----------------------------------|---------------------------------|---------------------------------|-------------------------------------|--|---|-----------------------------|----------------------|-------------|
| | | | | | | | | Boron ppm | Boron ppm | Na x 100 Ca + Mg + Na | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| E-180e-K-25 | Neighbors of Woodcraft, NE of Arlington; 0.15 mile SW. of Adams St., 0.12 mile SW. of Maconah Ave. Use: Irrigation. Casing: 16 inches. Perforated 90-96; 111-129. | 16976 | 790 | *141 | (e) 336 | 3/ 7/30 9/ 19/31 | 184 184 | 0.22 | 27 | 297 | 355 | 101 92 | 174 171 | 45 42 | 104 139 | |
| E-180h-K-25 | Neighbors of Woodcraft, Well 2, NE of Arlington; 0.15 miles SE. of Maconah Ave., 0.17 miles SW. of Adams St. Use: Irrigation. Casing: 16 inches. Perforated 84-119; 132-149; 166-179. | 16976C | 790 | *180 | 1724 | 2 / 7/33 | 167 | 0 24 | 39 | 262 | 334 | 88 | 45 | 143 | 40 | 132 |
| E-181 K-25 | Sherman Indian Institute, Ave. 400 feet NE of Jackson St. Use: Domestic and irrigation. Sampled on 2/12/32 from supply tank to which this and another well 25 feet away are connected, one of which is 124 feet deep. | 16967B | 770 | 160 | 704 | 2/12/32 | 73 8 \| | 0 16 \| | 46 | 223 | 80 | 53 | 13 | 48 | 22 | 82 |
| E-182a-K-25 | G. A. Starrett, Jackson St. Well, SE of Arlington; 55 feet SW. of Jackson St., 1,300 feet NW. of Lincoln Ave. Use: Not used. Gravel 88-110; not water from crevices in granite 382-420. Lab. Nos. 707, 708 and 709 were sampled from depths of 73, 160 and 321 feet, respectively. | 16968 | 835 | *x421 | (d) 708 | 2/12/32 709 | 59.4 59.5 | 0.51 0.44 | 68 | 85 | 100 | 90 | 6 | 20 | 95 | |
| E-183-K-25 | G. A. Starrett and Mr. Shearer, SE of Arlington; 650 feet SE of Victoria Ave., 75 feet SW. of Jackson St. Casing: 7 inches. Use: Irrigation. Perforated 70-100. | 16979 | 900 | *115 | (e) 1833 | Nov. 1918 3/30/33 | 70.1 | 0.12 | 48 | 6216 | 115 | 63 | 18 11 | 47 54 | 29 26 | 83 |
| E-183a-K-25 | J. L. Kellam, SE. of Arlington; 45 feet SE. of Cleveland Ave., 600 feet SW. of Jackson St. Use: Irrigation. Casing: 14 inches. | 16979A | 900 | 127 | (e) 9/30/30 | 9/21/25 (s) 9/30/30 | ----- ----- ----- | 41 53 35 | 183 | 54 | 61 37 50 | 33 40 | 45 35 51 | 14 11 19 | 55 51 51 | |
| E-187b-K-25 | Madison Park Pumping Association, NE. of Arlington; 290 feet NW. of Indiana Ave., 135 feet NE. of Hoover St. Use: Irrigation. | 16996 | 861 | 187 | (d) 8/24/17 | ----- | ----- | 36 | 165 | 369 | 49 | 69 | 134 | 38 | 124 | |
| E-188-K-25 | Owner unknown, Beulah Well, E. of Arlington; 150 feet SE. of A. T. & S. F. Ry., 60 feet SW. of Adams St. Use: Irrigation. | 16987 | 845 | ----- | (d) 9/23/21 | 2/2/16 Aug. 1918 | ----- ----- | 16 | 176 | 388 | 137 | 29 | 169 | 62 | 5 | |
| E-188a-K-25 | Orange Acres Mutual Water Co. (formerly The Riverside Trust Co.), E. of Arlington; 750 feet NE. of Adams St.; 100 feet SW. of A. T. & S. F. Ry. Use: Irrigation. Gravel 102-106; 146-160; 200-214. | 16987A | 845 | *325 | (d) 9/23/21 | 4/27/22 7/26/22 8/30/22 7/15/22 7/20/22 | ----- ----- ----- ----- ----- | 49 50 54 52 49 | 227 235 235 231 245 | 551 523 522 522 532 | 114 206 190 190 153 | 145 206 141 141 125 | 143 139 139 139 110 | 52 60 55 55 142 | 1234 1275 1310 | |
| E-192a-J-26 | E. F. Graser, Riverside; 200 feet S. of Tequesquite Ave., 30 feet NW. of Alvarado St., extended, 0.4 mile W. of Pine St. Use: Dairy and domestic. Casing: 7 inches. | 17002 | 769 | x49 | (d) (d) (d) (d) (d) | 5/18/16 Nov. 1918 Jan. 1919 1/ 6/31 | 84.3 ----- ----- ----- | 0.08 0.04 | 32 | 270 | 422 | 110 | 113 | 184 | 55 | 150 |
| E-192d-J-26 | Riverside Laundry, Riverside; 100 feet NW. of Brockton Ave., 420 feet SW. of 14th St. (see Industrial Casing: 14 inches U. S. D. A. and D. W. R. analyses on 5/11/32 are from same sample). | 17012C | 795 | 246 | 940 | 5/11/32 (s) | 35.2 35.0 | 0.03 0.04 | 25 | 177 183 38 | 557 546 207 | 108 108 373 | 104 104 104 | 157 137 55 | 355 222 141 | |
| E-192e-J-26 | Royal Laundry, Riverside; 300 feet SW. of 14th St., 150 feet N. of Brockton Ave. Use: Industrial. Casing: 10 inches. | 17012D | 795 | 165 | 1042 | 6 / 7/32 | 63.6 | 0.08 | 28 | 253 | 55 | 35 | 6 | 73 | 13 | 42 |
| E-193a-K-26 | Orange Acres Mutual Water Co. (formerly The Riverside Trust Co.), SW. of Riverside; 80 feet SE. of A. T. & S. F. Ry., 660 feet NE. of Jane St. Use: Irrigation. Gravel 104-170; 180-188. | 17005 | 875 | *249 | (d) (d) | 4/26/16 Jan. 1919 | ----- ----- | ----- | 41 | 161 | 567 | 52 | 113 | 161 | 64 | 222 |
| E-193b-K-26 | Ear Fruit Co. SW. of Riverside; 70 feet SE. of A. T. & S. F. Ry., 660 feet NE. of Mary St. Use: Irrigation. Casing: 12 inches. Perforated 1124 1/8, 150 1/8. | 17015A | 876 | *x245 | (d) (d) 301 | 4/26/16 Jan. 1919 9/15/31 | ----- ----- 219 | ----- 0.23 | 41 | 133 | 634 | 47 | 78 | 178 | 59 | 222 |
| E-194-K-26 | McCormack Pumping Association, SW. of Riverside; 15 feet SE. of Indiana Ave., 15 feet SW. of Washington St. Use: Irrigation. Casing: 12 inches. | 17006 | 860 | x165 | (d) | 5/18/16 | ----- | ----- | 42 | 169 | 387 | 61 | 102 | 131 | 42 | 164 |

TABLE 18. WELLS IN RIVERSIDE AREA CARRIED

Constituent Particulars

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

| Well number | Location and description | Elevation of ground in feet | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K_x \cdot 10^{-3}$ at 25°C) | Boron ppm | Pore water sodium $(Na \times 10^6) / (Ca + Mg + Na)$ | Constituents (part per million) | | | | | |
|-------------|--|-----------------------------|-----------------------------|--|---|---|--|---|--|--|--|--|--------------------------|----------------------|
| | | | | | | | | | Bicarbonate radical (HCO_3^-) | Chloride radical (Cl^-) | Sulfate radical (SO_4^{2-}) | Nitrate radical (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium ($Na$) |
| E-202a-J-26 | Clearwater Co., Riverside; 150 feet N. of Pennsylvania Ave.; 550 feet W. of Kansas Ave. Use: Irrigation. | 918 | 236 | (d) (d) (d) (d) | Jan. 1919 June 1926 May 1927 Oct. 1927 | 1.19 1.19 1.19 1.19 | 35 34 30 213 | 183 218 200 200 | 30 49 52 52 | 3 100 102 102 | 82 100 90 90 | 19 21 27 27 | 1971 180 170 | |
| E-202c-J-27 | R. F. Fox, S. E. of Riverside; 600 feet S. of South St., 50 feet N. of Churaco Ave.; extended. Use: Domestic and irrigation. | 920 | 140 | 939 | 5/13/32 | 126 | 0.14 | 47 | 21 | 90 | 27 | 85 | 85 | |
| E-202d-J-27 | University of California Citrus Experiment Station Gage Tract Well. Riverside; 133 feet E. of Churaco Ave.; 0.25 mile N. of Pennsylvania Ave. Use: Not used, capped since 1919. Samples on 11/11/19 were composite for the operating periods of 1-10, 10-20, 20-30, 30-40, 40-50, 50-60, and after 60 hours, respectively. | 960 | ----- | (d) (d) (d) (d) (d) (d) (d) (d) | 6/10/19 11/11/19 11/11/19 11/11/19 11/11/19 11/11/19 11/11/19 11/11/19 | 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 | 103 103 103 103 103 103 103 103 | 230 233 233 233 233 233 233 233 | 160 163 163 163 163 163 163 163 | 41 41 50 50 50 50 50 50 | 23 23 27 27 27 27 27 27 | 84 86 86 86 86 86 86 86 | | |
| E-203-J-26 | R. F. Fox, Old Church Ranch Well. SE. of Riverside; 135 feet W. of Churaco Ave., extended; 370 feet S. of South St., in Tropicana Grove. Use: Domestic and irrigation. | 930 | 160 | (d) | June 1930 | ----- | ----- | 47 | 146 | 66 | 22 | 15 | 39 | 13 |
| E-206-J-27 | Glenwood Investment Co., E. of Riverside; 225 feet E. of Canyon Ave.; 1 foot S. of Linden St. Use: Irrigation. | 1,044 | x329 | (d) | 2/2/16 | ----- | ----- | 52 | 112 | 74 | 68 | 13 | 35 | 14 |
| E-206a-J-27 | Lemon Heights Water Co., E. of Riverside; 25 feet N. of Linden Ave.; 90 feet E. of Gage Canal, 0.32 mile E. of Iowa Ave. Use: Irrigation. | 1,025 | 400 | (d) §32 | 2/2/16 5/11/32 | 46.9 0.10 | 63 56 | 106 125 | 55 60 | 19 19 | 8 | 26 23 | 17 10 | 173 162 |
| I-207-J-27 | University of California Citrus Experiment Station. E. of Riverside; 1,270 feet N. of Pennsylvania Ave., 85 feet E. of Gage Canal. Use: Domestic. | 1,020 | ----- | (d) (d) (d) (d) (d) (d) (d) | 5.24 16 11/23/18 4/19/28 3/4/31 4/21/31 | 46.9 0.08 0.08 0.04 | 44 32 32 40 | 137 154 154 140 | 54 137 137 117 | 18 33 19 21 | 18 33 19 30 | 14 54 49 50 | 14 54 55 56 | |
| E-207a-J-27 | A. C. Woodhill, E. of Riverside; 65 feet E. of Town Ave.; 520 feet S. of Linden Ave. Use: Irrigation. Casing: 10 inches. | 996 | x350 | (e) (e) (e) (e) | 2/18/25 5/18/27 5/7/28 7/30/28 | ----- | 49 | 135 35 35 34 | 82 116 116 244 | 50 78 89 71 | 11 78 89 71 | 38 36 34 30 | 13 34 34 30 | 13 29 48 41 |
| E-207b-J-27 | F. A. Terley, Jr., E. of Riverside; 0.14 mile S. of Pennsylvania Ave., 50 feet E. of Canyon Crest Road. Use: Irrigation and domestic. Casing: 8 inches. U.S. D.A. and D. W. R. analyses on 5/13/32 are from same sample. | 1,055 | *150 | (d) §34 | Nov. 1929 5/13/32 | 70.6 70.6 | 0.16 0.15 | 32 35 34 | 110 217 217 | 49 67 53 | 62 67 72 | 38 31 51 | 25 59 61 | |
| E-218-K-28 | Box Springs Mutual Water Co., NW. of March Field; 1,000 feet E. of State Highway to Perris; 20 feet S. of Draca Ave. Use: Domestic and irrigation. Casing: 10 inches. | 1,530 | 1580 | 937 | 5/12/32 | 59.8 | 0.07 | 43 | 58 | 115 | 17 | 23 | 34 | 16 |
| E-219a-L-24 | C. W. Main, SW. of Arlington; 63 feet N. of Magnolia Ave.; 62 feet W. of Buchanan St. Use: Irrigation. Casing: 16 inches. Perforated 170-181. Bailey No. 3622D. | 686 | *x131 | (d) 230 | July 1919 8/13/31 | ----- 123.3 | 44 | 275 42 33 39 | 91 176 181 181 | 343 105 105 299 | 31 19 105 174 | 120 100 104 98 | 149 124 143 108 | |
| E-219b-L-24 | Twin Bottles Water Co., Plant 1, SW. of Arlington; 0.25 mile SW. of Pierce St.; 830 feet NW. of Magnolia Ave. Second well from north end of row of eighteen wells. Use: Irrigation. | 16000 | 689 | ----- | (d) 8/5/28 | ----- | 49 44 | 262 268 | 319 294 | 103 106 | 108 101 | 40 41 | 190 148 | |
| E-219c-L-24 | W. J. Hole, SW. of Arlington; 0.26 mile SW. of Pierce St.; 50 feet NW. of Magnolia Ave. Use: Irrigation. Casing: 20 inches. Perforated 54-66; 70-102; 114-126. Bailey No. 3622C. | 16000A | 688 | *126 | (f) | 11/30/31 | 100 | 46 | 339 | 71 | 79 | 67 | 67 | 98 |
| E-219d-L-24 | J. Generaux, Well 1, 50 feet SW. of Pierce St. Use: Not used. Casing: 16 inches. Perforated 54-78. | 16010A | 700 | *102 | (g) | Nov. 1930 | ----- | 13 | 270 | 41 | 61 | 78 | 78 | 21 |

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|-------------|---|-----------------|---------------------|-----------------------------|-------------------|-----------------------|---|--------------|---|----------------------------------|------------------------------------|--|-------------------------------------|----------|----------|------------|
| | | | | | | | Specific electric conductivity ($\text{K} \times 10^8$ at 25°C) | Boron ppm | Per cent sodium $\text{Na} \times 100$ $\text{Ca} + \text{Mg}$ $-\text{Na}$ | Bicarbonate (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | | | |
| E-299b-L-24 | E. J. Generaux, Well 2, SW of Arlington; 0.3 mile SE. of Magnolia Ave., 30 feet SW. of Iris Ave. Use: Not used. Casing: 16 inches. Perforated 59-62; 65-77; 88-98. | 16010 | 702 | *101 | (d) | Nov. 1930 | ..... | ..... | 14 | 280 | 39 | 60 | ..... | 78 | 25 | 122 |
| E-304a-L-24 | F. W. Knard, SW. of Arlington; 100 feet SE. of Arizona Ave., 77 feet SW. of Taylor St. Use: Domestic. Casing: 6 inches. Bailey No. 3624B. | 16030 | 780 | x60 | (d) (e) | Oct. 1918 11/24/31 | 130 | ..... | 44 46 | 268 308 | 123 92 | 106 134 | 13 | 62 66 | 27 28 | 196 111 |
| E-304-L-24 | Mrs. P. W. Swanson, SW. of Arlington; 100 feet SW. of Filmore St., 20 feet SW. of Arizona Ave. extended. Use: Domestic. Bailey No. 3626A. | 16021 | 70 | ..... | (f) | 11/24/31 | 167 | ..... | 41 | 275 | 176 | 171 | ..... | 96 | 35 | 122 |
| E-309-L-25 | Thomas G. Thursday, S. of Arlington; 120 feet N. of Victoria Ave., 90 feet NE. of John St., extended. Use: Irrigation and domestic. Casing: 15 inches. | 16050 | 840 | 60 | (d) | Oct. 1926 | ..... | ..... | 19 | 250 | 142 | 107 | ..... | 94 | 47 | 145 |
| E-319-L-25 | E. J. Generaux, SE. of Arlington; 285 feet W. of Mockingbird Canyon Road, 78 feet SW. of Irving St., 675 feet N. of Riverside City limits, 21 feet NW. of E-319b-L-25. Use: Irrigation. Casing: 14 inches. | 16090 | 1,000 | ..... | (d) | Feb. 1931 | ..... | ..... | 43 | 280 | 200 | 120 | ..... | 88 | 35 | 125 |
| E-319a-L-25 | J. F. Clark, Well 1, SE. of Arlington; 290 feet W. of Mockingbird Canyon Road, 800 feet SW. of Irving St., 640 feet N. of Riverside City limits, 36 feet SE. of E-319b-L-25. Use: Not used. | 16090A | 1,000 | 130 | (d) | Mar. 1927 | ..... | ..... | 33 | 262 | 213 | 140 | ..... | 106 | 44 | 100 |
| E-319b-L-25 | Judson F. Clark, Well 2, SE. of Arlington; 270 feet W. of Mockingbird Canyon Road, 800 feet SW. of Irving St., 660 feet N. of Riverside City limits. Use: Irrigation. | 16090B | 1,000 | ..... | (d) | Mar. 1928 | ..... | ..... | 55 | 290 | 195 | 254 | ..... | 82 | 36 | 195 |
| E-319c-L-25 | M. B. Collins, SE. of Arlington; 42 feet S. of County Road, 140 feet W. of Mockingbird Canyon Road, 490 feet S. of Riverside City limits. Use: Domestic and irrigation. | 16091 | 1,000 | ..... | (d) | Mar. 1928 | ..... | ..... | 268 | 184 | 134 | ..... | ..... | ..... | ..... | ..... |
| E-325-L-26 | A. Larry Butler, SE. of Arlington; 1.65 mile up Mockingbird Canyon Road from Irving St., 150 feet NE. of road, 25 feet W. and 205 feet N. of S. 1/4 corner, Sec. 27, T. 3 S., R. 5 W., S. B. & M. & M. Use: Irrigation and domestic. | 16102 | 1,160 | ..... | (d) | Aug. 1928 | ..... | ..... | 275 | 177 | ..... | ..... | ..... | ..... | ..... | ..... |
| E-325a-L-26 | E. J. Akin, SE. of Arlington, 1/4 mile up Mockingbird Canyon Road from Irving St., 150 feet NE. of road, 400 feet S. and 1010 feet E. of N. 1/4 corner, Sec. 34, T. 3 S., R. 5 W., S. B. & M. Use: Irrigation and domestic. | 16102A | 1,200 | ..... | (f) | Nov. 1927 | ..... | ..... | 250 | 150 | ..... | ..... | ..... | ..... | ..... | ..... |
| E-329-L-26 | W. Bockelman, SE. of Arlington; 100 feet W. of main road to Woodcrest from Bradley St. through Casa Blanca, 100 feet S. of Charnas Road. Use: Domestic and irrigation. I. S. D. A. and D. W. R. analyses on 5/12/32 are from same sample. | 16131 | 1,585 | 43 | (e) | 5/12/32 | 63.5 63.1 | 0.14 0.13 | 38 39 | 149 165 | 80 78 | 27 30 | 20 32 | 44 44 | 19 19 | 54 52 |
| E-333-L-27 | Captain Gust Johnson, Woodcrest; 100 feet W. of Wood Road, 0.75 mile N. of Iris Ave. Use: Domestic and irrigation. | 16160 | 1,585 | 42 | 942 | 5/13/32 | 131 | 0.15 | 29 | 137 | 290 | 31 | 35 | 92 | 48 | 82 |
| E-338a-L-27 | J. I. Van Zandt, Woodcrest; 200 feet N. of Iris Ave., 300 feet W. of Wood Road. Use: Domestic and irrigation. | 16161 | 1,630 | 74 | 944 | 5/12/32 | 44.9 | 0.14 | 40 | 110 | 55 | 14 | 18 | 27 | 14 | 38 |
| E-349-L-28 | F. O'Neill, S. of March Field; 100 feet E. of Peris Highway, 70 feet N. of Iris Ave. Use: Domestic. Casing: 6 inches. | 16221 | 1,535 | 110 | 936 | 5/12/32 | 85.4 | 0.10 | 26 | 131 | 158 | 10 | 31 | 71 | 20 | 47 |

* Log in files of Division of Water Resources.

X Water level in feet of Water Resources.

a Includes small equivalent quantity of Carbonate (CO_3^{2-}).

b Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

c Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

d Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

e Analyses by Edward S. Babcock and Sons, Riverside, California.

f Analyses by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22046 (Corona Football Lemon Co., a Corp., vs. C. E. Lillbridge, et al.), in the Superior Court of the State of California, in and for the County of Riverside.

g Analyses by Aeration Laboratory, Anaheim, California. Data from Case No. 22046 (Corona Football Lemon Co., a Corp., vs. C. E. Lillbridge, et al.), in the Superior Court of the State of California, in and for the County of Riverside.

TABLE 19. WELLS IN TEMESCAL AREA

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (part per million) | | | | | | | | |
|--------------|--|-----------------|---------------------|-----------------------------|-------------------|----------|---|-----------|---|--|-----------------------------|---|---|-----------------------------|-------------------------------|
| | | | | | | | Specific electric conductivity (K $\times 10^{-3}$) at 25°C. | Boron ppm | Per cent sodium Na $\times 100$ (Ca^{+2} , Mg^{+2} , + Na) | Boron-lanthanum radioactive (HCO ₃ ⁻) | Chloride (Cl ⁻) | Sulfate (SO ₄ ⁻) | Nitrate (NO ₃ ⁻) | Calcium (Ca ²⁺) | Magnesium (Mg ²⁺) |
| 1 147. L. 21 | Mrs. Ethel Nichols, NE. of Prado; 125 feet NE. of Yorba St., Ry. Use: Domestic. Bailey No. 3721C. | 167806 | 498 | x23 | (*) | 10/2/31 | 131 | 31 | 284 | 167 | 141 | 32 | 140 | 141 | 32 |
| 1 147. L. 21 | Santa Ana Water Co., NE. of Prado; 0.43 mile NW. of intersection of A.T.&S.F. Ry. and Yorba St., 150 feet E. of Yorba St. Use: Domestic. Casing: 12 inches. Bailey No. 3716F. | 16789 | 196 | x | (*) | 9/23/31 | 171 | 31 | 367 | 239 | 151 | 41 | 6113 | 19 | 32 |
| 1 147. K. 22 | Avalon Union Water Co., NW. of Corona; 0.45 mile NW. of Croydon St. on line of Rincon St., extended 0.12 mile S. of ranch road. On top of hill. Use: Domestic. Casing: 6 inches. Bailey No. 3715B. | 16776 | 615 | x160 | (*) | 11/28/31 | 77 | 11 | 156 | 110 | 26 | 44 | 40 | 146 | 146 |
| 1 147. K. 22 | Mr. W. C. Warner, NW. of Corona; 25 feet SW. of Auburndale Road. 0.46 mile NW. of Croydon St. Use: Domestic. Bailey No. 3710L. | 16807A | 530 | x | (*) | 11/24/31 | 64 | 35 | 230 | 60 | 44 | 59 | 13 | 1 | 50 |
| 1 150. K. 22 | John Baldwin, NW. of Corona; 0.55 mile NW. of Croydon St., 1,000 feet SW. of Auburndale Read. (River St.) On hill. Use: Domestic. Casing: 15 inches. Bailey No. 3710F. | 16808 | 601 | x134 | (*) | 9/23/31 | 52 | 57 | 150 | 131 | 44 | 41 | 13 | 194 | 107 |
| 1 150. K. 22 | Rex Clark, NW. of Corona; 1,400 feet SW. of Auburndale Road, 50 feet NW. of Croydon St. Use: Not used. Casing: 10 inches. Bailey No. 3714A. | 16818A | 567 | x211 | (*) | 2/6/32 | 52 | 63 | 150 | 131 | 54 | 40 | 30 | 9 | 112 |
| 1 151. L. 22 | Mr. John Baldwin, NW. of Corona; 0.40 mile SW. of Croydon St., 0.15 mile NE. of Rincon St. Use: Irrigation. Bailey No. 3714D. | 16809B | 536 | x119 | (*) | 12/21/31 | 90 | 14 | 232 | 113 | 45 | 59 | 28 | 1 | 61 |
| 1 151. L. 22 | W.B. Covington, NW. of Corona; 100 feet SW. of Rincon St., extended 200 feet NW. of Croydon St., extended. Use: Irrigation. Gravel 30 st. Bailey No. 3715J. | 16809C | 525 | *x80 | (*) | 9/20/31 | 161 | 39 | 330 | 236 | 74 | 130 | 37 | 147 | 147 |
| 1 151. L. 22 | E. R. Wood, NW. of Corona; 0.38 mile NE. of Rincon St., 50 feet SE. of Croydon St. Use: Domestic. Bailey No. 3715G. | 16809D | 558 | x | (*) | 10/5/31 | 69 | 44 | 143 | 103 | 28 | 35 | 18 | 58 | 62 |
| 1 151. L. 22 | Mr. E. Bowen, NW. of Corona; 0.16 mile SE. of intersection of Croydon and Rincon Sts., 30 feet SW. of Rincon St. Use: Irrigation. Bailey No. 3715H. | 16809E | 527 | *x86 | (*) | 9/20/31 | 188 | 36 | 503 | 310 | 80 | 186 | 42 | 42 | 163 |
| 1 151. L. 22 | Mrs. E. Bowen, NW. of Corona; 0.10 mile SE. of intersection of Croydon and Rincon Sts., 100 feet SW. of Rincon St. Use: Irrigation. and, domestic. Bailey No. 3715K. | 16809F | 527 | (*) | (*) | 10/2/31 | 191 | 36 | 503 | 310 | 80 | 186 | 42 | 42 | 163 |
| 1 151. K. 22 | W. B. Covington, NW. of Corona; 200 feet SW. of Rincon St., extended 50 feet NW. of Croydon St., extended. Use: Domestic. Casing: 7 inches. Bailey No. 3715J. | 16809G | 530 | (*) | (*) | 9/20/31 | 136 | 36 | 503 | 310 | 80 | 186 | 42 | 42 | 163 |
| 1 151. K. 22 | C. E. Burner, NW. of Corona; 0.15 mile SE. of intersection of Croydon and Rincon Sts., 100 feet SW. of Rincon St. Use: Irrigation. and, domestic. Bailey No. 3715L. | 16809H | 526 | x420 | (*) | 9/20/30 | 186 | 36 | 503 | 310 | 80 | 186 | 42 | 42 | 163 |
| 1 151. K. 22 | W. B. Covington, NW. of Corona; 200 feet SW. of Rincon St., extended 50 feet NW. of Croydon St., extended. Use: Domestic. Casing: 8 inches. Bailey No. 3715J. | 16809I | 526 | (*) | (*) | 9/20/31 | 183 | 36 | 503 | 310 | 80 | 186 | 42 | 42 | 163 |
| 1 152. K. 22 | H. G. Beecham, N. of Corona; 75 feet S. of 2d St., 0.14 mile W. of Pacific Ave. Use: Domestic and irrigation. Casing: 12 inches, concrete. Bailey No. 3713A. | 16828 | 587 | x60 | (*) | 9/30/31 | 129 | 34 | 205 | 217 | 61 | 79 | 31 | 49 | 49 |
| 1 152. K. 22 | W. M. Wright, N. of Corona; 100 feet S. of 2d St., 0.27 mile W. of Hammer Ave., 1 foot from P-153K-X-22. Use: Irrigation. Casing: 8 inches. Gravel 18-27. Bailey No. 3713C. | 16838 | 600 | *x64 | (*) | 9/30/31 | 119 | 37 | 247 | 209 | 64 | 79 | 33 | 49 | 49 |
| 1 152. K. 22 | T. W. Mitchell, N. of Corona; 25 feet S. of 1st St., 0.15 mile E. of Pacific Ave. Use: Domestic and irrigation. Bailey No. 3724B. | 16839F | 584 | x58 | (*) | 9/30/31 | 115 | 46 | 110 | 259 | 45 | 31 | 19 | 32 | 48 |
| 1 152. K. 22 | W. M. Wright, N. of Corona; 100 feet S. of 2d St., 0.27 mile W. of Hammer Ave., 1 foot from P-153K-X-22. Use: Domestic. Casing: 2 inches, driven. Perforated well point at 100 feet. Bailey No. 3713D. | 16838B | 600 | 100 | (*) | 11/20/31 | 74 | 55 | 165 | 103 | 59 | 15 | 15 | 187 | 187 |
| 1 154. K. 22 | E. T. Daily, N. of Corona; 0.11 mile W. of Hammer Ave., 0.09 miles S. of 2d St. Use: Domestic. Casing: 7 inches. Bailey No. 3713D. | 16839A | 604 | x70 | (*) | 11/19/31 | 240 | | | | | | | | 480 |

TABLE 19. WELLS IN TEMESCAL AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|----------|--|-----------|--|--|------------------------------------|-------------------------------------|--|------------------------------|--------------------------------|----------------------------|-----|
| | | | | | | Specific electrical conductance ($K \times 10^{-4}$ at 25°C) | Boron ppm | Per cent sodium $\frac{\text{Na} \times 100}{(\text{Ca} + \text{Mg} + \text{Na})}$ | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Nitrate radicle (NO_3^-) | Sulfate radicle (SO_4^{2-}) | Calcium (Ca^{++}) | Magnesium (Mg^{++}) | Sodium (Na^{+}) | |
| E-154d-K-22 | B. H. Ott, N. of Corona; 0.15 mile S. of 2d St., 0.16 mile W. of Hammer Ave. Use: Domestic. Casing: 10 inches. Bailey No. 3713F. | 604 | 80 | (e) | 11/19/31 | 172 | ..... | ..... | 384 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-156-K-23 | A. Henwood, E. of Norco; 0.28 mile S. of 6th St., 300 feet E. of Hillside Ave. Use: Irrigation and domestic. Bailey No. 365A. Traverset St. Use: Domestic and irrigation. Casing: 5 in. dia., in 35-foot pit. Bailey No. 3618C. | 636 | 96 | (e) | 11/19/31 | 11/19/31 | 50 | 168 | 139 | 38 | 45 | 18 | 18 | 185 | | |
| E-159b-K-23 | W. C. Goodhue, N. of Corona; 250 feet S. of 1st St., 100 feet W. of Traverset St. Use: Domestic and irrigation. Casing: 5 in. dia., in 35-foot pit. Bailey No. 3618C. | 652 | 101 | (e) | 11/19/31 | 83 | ..... | 54 | 174 | 121 | 40 | 47 | 11 | 11 | 88 | |
| E-263-L-21 | Unita Campion, Prado; 1,900 feet W. of Center St., 100 feet S. of State Highway. Use: Domestic. Casing: 3 x 4' dug well. Bailey No. 3720L. | 493 | 119 | (e) | 9/22/31 | 123 | ..... | ..... | 42 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-267-L-21 | Excelsior Ranch Co., Ltd., Prado; 730 feet E. of Center St., 40 feet N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 16 inches. Bailey No. 3721E. | 489 | 157 | (e) | 9/22/31 | 96 | ..... | ..... | 57 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-267e-L-21 | Excelsior Ranch Co., Ltd., N. of Prado; 0.25 mile N. of intersection of Center St. and A. T. & S. F. Ry.; 100 feet E. of Center St. Use: Domestic, cooling and washing bottles. Casing: 12 inches. Bailey No. 3720A. | 484 | 157 | (e) | 9/22/31 | 106 | ..... | 32 | 235 | 117 | 117 | 122 | ..... | ..... | ..... |  |
| E-267f-L-21 | Excelsior Ranch Co., Ltd., Prado; 300 feet N. of State Highway, 100 feet W. of Center St. Use: Domestic. Casing: 7 inches. Bailey No. 3720C. | 492 | 157 | (e) | 9/22/31 | 107 | ..... | 32 | 235 | 118 | 118 | 122 | ..... | ..... | ..... |  |
| E-267g-L-21 | Ernest Gobert, Prado; 20 feet E. of Center St., 200 feet S. of State Highway. Use: Irrigation and domestic. Casing: 10 inches. Bailey No. 3720J. | 501 | 157 | (e) | 9/22/31 | 95 | ..... | ..... | 50 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-267k-L-21 | Excelsior Ranch Co., Ltd., Prado; 50 feet W. of Center St., 50 feet N. of road that is 700 feet S. of State Highway. Use: Irrigation. Bailey No. 3720K. | 507 | 157 | (e) | 9/22/31 | 102 | ..... | ..... | 46 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-267q-L-21 | C. O. Dale, Prado; 200 feet N. of State Highway, 300 feet W. of Center St. Use: Domestic and irrigation. Casing: 12 inches. Bailey No. 3720Q. | 494 | 135 | (e) | 9/23/31 | 95 | ..... | 10 | 265 | 43 | 196 | 105 | 41 | 41 | b22 | |
| E-268b-L-21 | Achison, Topeka & Santa Fe Ry., Prado; 20 feet S. of A. T. & S. F. Ry.; 0.17 mile W. of Center St. Use: Domestic. Bailey No. 3720P. | 486 | 157 | (e) | 9/25/31 | 105 | ..... | 16 | 265 | 44 | 204 | 106 | 36 | 36 | b35 | |
| E-268d-L-21 | O. G. Meredith, Prado; 0.35 mile E. of Center St., 1,000 feet E. and 100 feet S. of turn to South in highway through Prado. Use: Domestic. Casing: 7 inches. Bailey No. 3721N. | 530 | 157 | (e) | 9/23/31 | 95 | ..... | 17 | 256 | 44 | 203 | 97 | 40 | 40 | b37 | |
| E-268e-L-21 | R. B. Wardlow, NE. of Prado; 100 feet S. of A. T. & S. F. Ry.; 50 feet E. of Yorba St. Use: Domestic. Casing: 7 inches. Bailey No. 3721G. | 512 | 157 | (e) | 11/25/31 | 97 | ..... | ..... | 36 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-268g-L-21 | Homer Pete, NE. of Prado; 300 feet NE. of Yorba St., 0.11 mile S. of intersection of A. T. & S. F. Ry. and Yorba St. Use: Domestic. Casing: 24 inches, tile. Dog well lined around. Bailey No. 3721H. | 545 | 157 | (e) | 9/23/31 | 95 | ..... | 19 | 238 | 57 | 168 | 75 | 101 | 101 | 27 | |
| E-268h-L-21 | C. H. Ashcroft, Prado; 300 feet E. of State Highway on projection of road that is 700 feet S. of State Highway. Use: Irrigation and domestic. Bailey No. 3721W. | 545 | 157 | (e) | 11/25/31 | 96 | ..... | 19 | 238 | 57 | 168 | 75 | 101 | 101 | 27 | |
| E-269-L-22 | Homer Pete, E. of Prado; 650 feet S. of A. T. & S. F. Ry., 0.34 mile E. of intersection of A. T. & S. F. Ry. and Yorba St. Use: Irrigation. Casing: 12 inches. Bailey No. 3721J. | 549 | 157 | (e) | 9/23/31 | 103 | ..... | 27 | 232 | 117 | 110 | 110 | 73 | 73 | 79 | |
| E-269a-L-22 | Mr. Yorba, E. of Prado; 500 feet S. of A. T. & S. F. Ry., 3,500 feet W. of Railroad Ave. and Smith St. intersection, 2,000 feet N. L. of Yorba St. Use: Irrigation. Casing: 12 inches, Gravel 35 sq. ft. Bailey No. 3722H. | 525 | 157 | (e) | 9/23/31 | 101 | ..... | 27 | 226 | 115 | 107 | 107 | 89 | 89 | 27 | |
| E-270-L-21 | R. B. Wardlow, SE. of Prado; 0.4 mile S. of State Highway, 0.8 mile W. of intersection of Yorba St. and State Highway. Use: Domestic. Casing: 14 inches. Bailey No. 3728A. | 611 | 164 | (e) | 9/22/31 | 111 | ..... | 14 | 311 | 25 | 289 | 111 | 52 | 52 | b34 | |
| E-272-L-22 | William Fisher, NE. of Corona; 550 feet SW. of Rincon St., 0.31 mile NW. of Smith Ave. Use: Irrigation. Casing: 12 inches. Bailey No. 3722B. | 536 | 148 | (e) | 9/20/31 | 181 | | 34 | 267 | 171 | 100 | 100 | 87 | 87 | 25 | b63 |

TABLE 19. WELLS IN TEMESCAL AREA—Continued

| Well number | Location and description | Elevation of ground number | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^4$ at 25°C) | Boron ppm | Per cent sodium $\frac{Na}{Ca+Mg+Na} \times 100$ | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (C_{a4}) | Magnesium (Mg_{a4}) | Sodium (Na_a) | Constituents (parts per million) | | |
|-------------|---|----------------------------|-----------------------------|-------------------|------|--|---------------------|--|-----------------------------------|-----------------------------|---------------------------------|------------------------------|----------------------|-------------------------|-------------------|----------------------------------|-----|---|
| | | | | | | | | | | | | | | | | | | |
| E-272a-L-22 | C. E. L. C. and J. E. Lillbridge, Well 4-B, NW of Corona; 100 feet N of A. T. & S. F. Ry., 0.30 mile NW of Smith St., Use: Irrigation. Casing: 15 inches. Gravel 18-100. Bailey No. 3722G. | 15900B | 535 | *x150 | (e) | 9/20/31 11/24/31 | 116 115 | 33 | 290 | 121 117 | 115 | — | — | — | — | 25 | 84 | |
| E-272c-L-22 | C. E. L. C. and J. E. Lillbridge, Well 1, NW of Corona; 500 feet SW of Rincon St., 800 feet NW of Smith St., Use: Irrigation. Bailey No. 3723G. | 15900D | 540 | x----- | (e) | 9/20/31 9/30/31 11/24/31 | 154 154 152 | 39 37 37 | 333 326 320 | 213 224 210 | 103 111 104 | 126 127 126 | 24 29 26 | 122 119 115 | — | — | | |
| E-273d-L-22 | C. E. L. C. and J. E. Lillbridge, Well 5, NW of Corona; 1,100 feet SW of Rincon St., 900 feet SE of Croydon St., 0.67 mile NW of intersection of Rincon St. and A. T. & S. F. Ry. Use: Irrigation. Gravel 0-48. Bailey No. 3722A. | 15900E | 527 | *x48 | (e) | 9/20/31 9/30/31 11/24/31 | 194 192 190 | 33 34 34 | 491 491 491 | 284 287 280 | 94 98 98 | 175 166 166 | 40 43 43 | 136 140 140 | — | — | | |
| E-273e-L-22 | C. E. L. C. and J. E. Lillbridge, Well 6, NW of Corona; 700 feet N of A. T. & S. F. Ry., 2,900 feet W of Smith St., 600 feet W. of barn. Use: Irrigation. Gravel 18-100. Bailey No. 3722C. | 15900F | 529 | *x100 | (e) | 9/20/31 9/30/31 11/24/31 | 134 135 123 | 35 38 34 | 308 302 287 | 167 171 145 | 115 120 115 | 116 114 101 | 25 23 28 | 98 106 108 | — | — | | |
| E-273f-L-22 | C. E. L. C. and J. E. Lillbridge, Well 3, NW of Corona; 900 feet N of A. T. & S. F. Ry., 0.30 mile NW of intersection of Rincon and Smith Sts., 1,000 feet SW of Rincon St., Use: Irrigation. Gravel 18-70. Bailey No. 3722D. | 15900G | 537 | *x125 | (e) | 9/20/31 9/30/31 11/24/31 | 159 156 150 | 36 36 36 | 348 227 336 | 231 227 210 | 104 101 101 | 133 116 116 | 30 34 34 | 120 112 112 | — | — | | |
| E-273g-L-22 | C. E. L. C. and J. E. Lillbridge, Well 2, NW of Corona; 800 feet N of A. T. & S. F. Ry., 0.27 mile NW of intersection of Rincon and Smith Sts. Use: Irrigation. Gravel 24-63. Bailey No. 3722E. | 15900H | 537 | *x68 | (e) | 9/20/31 9/30/31 11/24/31 | 148 142 144 | 37 37 37 | 330 | 202 192 192 | 104 106 106 | 133 116 116 | 30 34 34 | 120 112 112 | — | — | | |
| E-272i-L-22 | C. E. L. C. and J. E. Lillbridge, Well 4-A, NW of Corona; 100 feet N of A. T. & S. F. Ry., 0.30 mile W of Smith St., 10 feet W. of E-272a-L-22. Use: Irrigation. Casing: 15 inches. Gravel 18-100. Bailey No. 3722F. | 15900I | 535 | *x150 | (e) | 9/20/31 9/30/31 11/24/31 | 118 118 117 | 34 37 37 | 278 293 293 | 128 122 125 | 101 115 115 | 101 96 96 | 25 24 24 | 184 190 190 | — | — | | |
| E-273a-L-22 | Robert McClinton, W. of Corona; 800 feet W. of Smith Ave.; 0.30 mile N. of 6th St., 1,000 feet N. of State Highway. Use: Irrigation. Casing: 16 inches. Bailey No. 3722G. | 15901A | 662 | x217 | (e) | 9/22/31 10/25/31 | 81 84 | 23 | 198 | 68 | 122 | 79 | 79 | 24 | 140 | — | — | |
| E-274c-L-22 | W. W. Nickle, NW of Corona; 100 feet SW. of Railroad St., 700 feet SE of Smith St. Use: Domestic. Casing: 3' x 4', dug well. Bailey No. 3722K. | 15910D | 592 | x79 | (e) | 12/19/31 12/14/31 13/02/32 | 98 728 9/1/32 | 35 37 38 | 232 232 229 | 96 94 92 | 98 108 98 | 78 13 18 | 20 22 22 | 168 79 79 | — | — | 848 | |
| E-274d-L-22 | North Corona Land Co., NW of Corona; 0.28 mile NE of Rincon St., 300 feet E. of Smith St., extended. South well. Use: Irrigation. Bailey No. 3723L. | 15910E | 546 | 125 | (e) | 9/20/31 9/30/31 11/25/31 | 250 234 196 | 31 | 748 | 369 | 64 | — | — | 56 | 173 | — | — | |
| E-274e-L-22 | L. F. Robinson, N. of Corona; 0.12 mile NE. of Finchon St., 25 feet NW of a dirt road which is 900 feet NW. of Smith St. Use: Irrigation. Bailey No. 3723N. | 15910F | 538 | 80 | (e) | 11/25/31 | 190 | 35 | 540 | 277 | 84 | — | — | 41 | 139 | — | — | |
| E-275e-L-22 | A. F. Call Estate, Pump 67, NW of Corona; 100 feet E. of Sherman St., 1,055 feet S. of Railroad Ave., 25 feet. Use: Irrigation. Casing: 12 inches in bottom of 100-foot pit. Bailey No. 3725B or E-275-L-22. Use: Irrigation. | 15911E | 628 | ----- | (e) | Sept. 1918 | ----- | 40 | 250 | 141 | 131 | 10 | 87 | 26 | 100 | — | — | |
| E-276-L-22 | Conoma Foothill Lemon Co., Corona; 50 feet W. of Lincoln Ave., 400 feet N. of W. 6th St. Use: Irrigation. Casing: 16 inches. Perforated 150-156; 162-201. Bailey No. 3726G. | 15912 | 678 | *x204 | (e) | 9/13/31 10/2/31 11/28/31 | 92 91 96 | 32 | 479 | 369 | 316 | 132 | 86 | 20 | 61 | — | — | |
| E-276c-L-22 | Jamison Estate, SW. of Corona; 50 feet W. of Lincoln Ave., 0.29 mile S. of Olive St. Use: Irrigation. Bailey No. 3755A. | 15913 | 797 | *x376 | (e) | 9/13/31 10/2/31 11/28/31 | 95 96 94 | 32 | 299 | 78 | 158 | 94 | 29 | 49 | 36 | 337 | — | — |
| E-277a-M-22 | First Trust & Savings Bank of Pasadena, SW. of Corona; 0.45 mile S. of Ontario Ave., 50 feet E. of Mangular Ave. Use: Irrigation. Bailey No. 473A. | 15904 | 950 | *x400 | (e) | 11/19/31 11/20/31 | 104 | 7 | 296 | 28 | 301 | 132 | 55 | 55 | 17 | 17 | — | — |

TABLE 19. WELLS IN TEMESCAL AREA Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electric conductance ($K \times 10^3$ at $25^\circ C$) | Per cent Boron ppm $Na \times 100$ $Ca + Mg$ + Na | Constituents (parts per million) | | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|--|---|--|-----------------------------------|-------------------------------------|---------------------------------|------------------------------|--------------|----------------|-------------|-------|-----|
| | | | | | | | | | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | | |
| E-277b-M-22 | Harry Whitecomb, SW. of Corona; 60 miles S. of Ontario Ave.; 250 feet W. of Mangiar Ave. North well. Use: Irrigation. Bailey No. 473B. | 15904A | 960 | x..... | (e) | 11/20/31 | 131 | ..... | 16 | 253 | 36 | 407 | ..... | 113 | 70 | b50 | |
| E-278-M-22 | Hillcrest Ranch, S. of Corona; 0.15 mile SW. of Hill St., 0.20 mile E. of Lincoln Ave. Use: Irrigation. Bailey No. 471A. | 1,150 | *390 | (e) | 11/20/31 | 115 | ..... | 15 | 210 | 60 | 289 | ..... | 125 | 41 | b39 | | |
| E-279b-L-22 | Stearns Ranch, NW. of Corona; 60 feet SE. of Goodwin St., 80 feet SW. of Harrington St. Use: Irrigation. Bailey No. 3723F. | 15920B | 562 | 95 | (e) | 9/20/31 | 182 | ..... | 32 | 345 | 297 | 108 | ..... | 156 | 39 | b118 | |
| E-279c-L-22 | Mr. Harris, NW. of Corona; 300 feet SW. of Rincon St., 200 feet SE. of Goodwin St., extended. Use: Irrigation. Bailey No. 3723J. | 15920C | 555 | 60 | (e) | 9/20/31 | 177 | ..... | 37 | 342 | 295 | 106 | ..... | 153 | 30 | b137 | |
| E-280-L-22 | Corona Heights Water Co., Hazard Well 2, NW. of Corona; 825 feet E. of Railroad St., 345 feet N.E. of A. T. & S. F. Ry., 960 feet N.W. of Cota St. Use: Irrigation. Casing: 12 inches. Bailey No. 3724Y. | 15921A | 571 | x100 | (e) | June 1930 | 176 | ..... | 41 | 348 | 277 | 109 | ..... | 134 | 31 | b149 | |
| E-280a-L-22 | Corona Heights Water Co., Hazard Well 1, NW. of Corona; 510 feet NE. of Railroad St., 970 feet N.W. of Cota St., 300 feet N.E. of A. T. & S. F. Ry. Use: Not used since 1920. Gravel 20-60. Bailey No. 3725A. | 15921A | * | 585 | *60 | (e) | Sept. 1918 | | 25 | 53 | 192 | 176 | 109 | 12 | 73 | 28 | 154 |
| E-280c-L-22 | George Shepard, NW. of Buena Vista St. Use: Abandoned, formerly irrigation and domestic. Bailey No. 3725D. | 15921E | 594 | *x85 | (e) | 9/22/31 | 149 | ..... | 36 | 332 | 217 | 104 | ..... | 124 | 32 | b112 | |
| E-281-L-22 | B. Chapin, N. of Corona; 125 feet W. of Hamner Ave.; 400 feet N. of intersection of Cota St. and Hamner Ave. Use: Domestic. Casing: 12 inches. Bailey No. 3724G. | 15930 | 577 | x54 | (e) | 9/30/31 | 94 | ..... | 41 | 162 | 158 | 46 | ..... | 51 | 27 | b75 | |
| E-281a-L-22 | A. S. Miller, N. of Corona; 150 feet SW. of River St., 0.13 mile NW. of intersection of River St. and Hamner Ave. Use: Domestic. Bailey No. 3724S. | 15930A | 584 | x80 | (e) | 9/20/31 | 206 | ..... | 33 | 433 | 327 | 127 | ..... | 177 | 47 | b142 | |
| E-281d-L-22 | Mt. Iriat, N. of Corona; 300 feet NE. of Auburndale Road (River St.), 0.10 mile SE. of Cota St. Use: Irrigation. Bailey No. 3724P. | 15930D | 581 | x120 | (e) | 9/20/31 | 199 | ..... | 33 | 406 | 323 | 114 | ..... | 174 | 41 | b138 | |
| E-281e-L-22 | G. F. Major, N. of Corona; 200 feet SW. of Auburndale Road (River St.), 0.15 mile NW. of intersection of Auburndale Road (River St.) and Hamner Ave. Use: Domestic. Casing: 8 inches. Bailey No. 3724R. | 15930E | 583 | x100 | (e) | 9/20/31 | 208 | ..... | ..... | ..... | 329 | ..... | ..... | ..... | ..... | ..... |  |
| E-281f-L-22 | Orange Heights Water Co., Well 1-B, N. of Corona; 50 feet E. of Hamner Ave.; 400 feet N. of Auburndale Road (River St.), 80 feet N. of intersection of Cota St. and Hamner Ave. Use: Irrigation. Bailey No. 3724T. | 15930F | 587 | x162 | (e) | 11/28/31 | 177 | ..... | 35 | 354 | 284 | 115 | ..... | 148 | 37 | b132 | |
| 1-281. 1-22 | George Baer, N. of Corona; 150 feet W. of Cota St., 0.20 mile S. of intersection of Cota St. and Auburndale Road (River St.). Use: Irrigation and domestic. Bailey No. 3724W. | 15930J | 580 | x..... | (e) | 9/20/31 | 196 | ..... | ..... | ..... | 315 | ..... | ..... | ..... | ..... | ..... |  |
| E-281k-L-22 | W. DeWitt, N. of Corona; 0.22 mile SE. of Goodwin St., 175 feet NE. of Auburndale Road (River St.). Use: Domestic and irrigation. Casing: 7 inches. Bailey No. 3724AA. | 15930K | 565 | 70 | (e) | 9/22/31 | 194 | ..... | 32 | 384 | 316 | 122 | ..... | 175 | 40 | b120 | |
| E-281l-L-22 | Ed Curry, N. of Corona; 25 feet N.E. of Joy St., 0.21 mile SE. of Goodwin St. Use: Domestic and irrigation. Bailey No. 3724D. | 15930L | 584 | x70 | (e) | 9/30/31 | 79 | ..... | 39 | 156 | 124 | 46 | ..... | 59 | 16 | b163 | |
| E-282-L-22 | Atchison, Topeka & Santa Fe Ry., Corona Well 2, Corona; 530 feet E. of Main St., 80 feet N. of A. T. & S. F. Ry. main track. Use: Boiler feed and domestic. Casing: 15 inches. | 15931 | 606 | x167 | (e) | 2/10/16 | ..... | 46 | 150 | 125 | 43 | ..... | 53 | 13 | b72 | | |
| E-282a-L-22 | Corona Foothill Lemon Co., Well 1, Corona; 175 feet W. of Merrill St., 128 feet N. of 2d St., 60 feet W. of Well 2. Use: Irrigation. Gravel 97-160. Samples are all composite of Wells 1 and 2. | 15931A | ..... | *165 | (e) | 6/ 7/16 Aug. 1918 April 1919 1923 | ..... | ..... | ..... | 103 | ..... | ..... | ..... | ..... | ..... | ..... |  |
| E-282c-L-22 | Corona Foothill Lemon Co., Well 3, Corona; 175 feet W. of Merrill St., 128 feet N. of 3d St., Westerly well of three. Use: Irrigation and domestic. Casing: 18 inches. Gravel 90-146. Bailey No. 3724G. | 15931C | 634 | *x167 | (e) | 9/13/31 10/ 2/31 11/19/31 | 115 | ..... | 38 | 103 | 372 | 107 | 10 | 112 | 35 | b117 | |
| E-283-L-22 | ..... | ..... | ..... | ..... | (e) | ..... | ..... | ..... | 43 | 252 | 161 | 26 | 8 | 85 | 29 | b114 | |
| E-283a-L-22 | ..... | ..... | ..... | ..... | (e) | ..... | ..... | ..... | 33 | 268 | 140 | 149 | 13 | 112 | 28 | b191 | |
| E-283b-L-22 | ..... | ..... | ..... | ..... | (e) | ..... | ..... | ..... | 263 | 263 | 114 | 143 | 110 | 100 | 25 | b180 | |

TABLE 19. WELLS IN TEMECCAL AREA Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductance (K x 10 ⁻⁴ at 25°C) | Boron ppm | Per cent sodium Na x 100 Ca + Mg / Ca + Na | Constituents (parts per million) | | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|------------------|--|-----------|--|---|-------------------------------------|------------------------------------|------------------------------------|----------------|-----------------|-----------------|
| | | | | | | | | | Bicarbonate radicle (HCO ₃) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Magnesium (Mg) | Sodium (Na) | |
| E-282d-L-22 | Orange Heights Water Co., Plant 1-A, N. of Corona; 50 feet E. of Hammer Ave., 320 feet N. of intersection of Hammer Ave. and Auburndale Road (River St.). Use: Irrigation. Casing: 26 inches. Gravel 0-162. Bailey No. 3725B. | 15531D | 586 | 162 | (^a) | 4/ 4/25 | ..... | ..... | 38 | 326 | 331 | 104 | 155 | 32 33 145 | |
| E-282h-L-22 | Mr. Milose, N. of Corona; 500 feet W. of Hammer Ave., 0.12 mile S. of intersection of Auburndale Road (River St.) and Hammer Ave. Use: Irrigation. Gravel 20-30. Bailey No. 3725B. | 15531H | 582 | *x00 | (^a) | 12/18/31 | 185 | ..... | 9 | 473 | 32 | 445 | 102 | 157 | 33 33 151 |
| E-285-M-22 | Ganahl Estate, S. of Corona; 10 feet N. of Main St., 0.60 mile S. of Hill St. Use: Irrigation. Bailey No. 4744A. | 15627 | 4,336 | *x60 | (^a) | 10/ 5/31 | 136 | ..... | 38 | 323 | 318 | 104 | 103 | 150 | 33 33 144 |
| E-286-L-22 | Exchange Lemon Products Co., Corona; 200 feet N. of A. T. & S. F. Ry., main track, 135 feet E. of Joy St. Use: Industrial. Gravel 20-66. Bailey No. 3725F. | 15941 | 606 | *x06 | (^a) | 4/ 4/25 | ..... | ..... | 39 | 296 | 305 | 103 | 144 | 30 | 33 33 133 |
| I-286b-L-22 | Mr. Evans, N. of Corona; 50 feet E. of Joy St., 0.47 mile N. of A. T. & S. F. Ry. Use: Irrigation. Bailey No. 3724X. | 15941A | 593 | x80 | (^a) | 9/20/31 | 178 | ..... | 37 | 299 | 329 | 104 | 103 | 144 | 32 32 140 |
| E-286-L-22 | J. W. Campbell, N. of Corona; 30 feet E. of Joy St., 0.26 mile N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 12 inches. Bailey No. 3725C. | 15941B | 595 | x115 | (^a) | 9/20/31 | 227 | ..... | 39 | 329 | 344 | 112 | 112 | 154 | 36 36 145 |
| E-286-L-23 | C. C. Parkridge, NE. of Corona; 1,150 feet N. of A. T. & S. F. Ry., 2,900 feet E. of Joy St., 600 feet S. of Parkridge Tennis Courts. Use: Irrigation. Bailey No. 3630A. | 15951 | 608 | x78 | (^a) | 12/21/31 | 172 | ..... | 58 | 335 | 267 | 111 | 111 | 128 | 34 34 140 |
| E-286-L-22 | Fred Dixon, N. of Corona; 250 feet N.E. of Joy St., 0.18 mile S.E. of intersection of Hammer Ave. and Joy St. Use: Domestic. Casing: 10 inches. Bailey No. 3724Q. | 15940 | 603 | 100 | (^a) | 9/20/31 | 190 | ..... | 42 | 314 | 266 | 115 | 115 | 122 | 32 32 146 |
| E-287-L-23 | City of Corona, Corona; 600 feet N. of 6th St., 500 feet E. of Grand Blvd., 70 feet S. and 95 feet E. of NW corner of city park. 1 sec. Irrigation and domestic. Casing: 12 inches. Bailey No. 3630B. | 15942 | 657 | *x150 | (^a) | 12/19/31 | 107 | ..... | 42 | 320 | 267 | 113 | 113 | 122 | 32 32 146 |
| E-287a-L-22 | Temeccal Water Co., Corona; 45 feet N. of 3d St., 125 feet E. of Joy St. Use: Domestic. Casing: 16 inches. Gravel 78-203. Bailey No. 3725I. | 15942A | 643 | *x221 | (^a) | 9/20/31 | 121 | ..... | 45 | 305 | 327 | 125 | 125 | 193 | 27 27 144 |
| E-287-L-23 | J. Wrightman, E. of Corona; 30 feet N. of Commercial St., at angle, 700 feet E. of Rimpau St., 0.51 mile E. of Grand Blvd. 1 sec. Domestic. Casing: 7 inches. Bailey No. 3630B. | 15952 | 659 | x96 | (^a) | 12/18/31 | 115 | ..... | 48 | 230 | 305 | 120 | 120 | 87 | 44 44 170 |
| E-287e-L-22 | Temeccal Water Co., Call Well, SE. of Corona; 0.20 mile E. of Rimpau Ave., 0.18 mile S. of intersection of Magnolia and Rimpau Avenue. 1 sec. Irrigation. Bailey No. 3631A. | 15953 | 727 | x..... | (^a) | 9/20/31 | 127 | ..... | 39 | 217 | 174 | 101 | 101 | 89 | 25 25 195 |
| I-287f-L-23 | Kuster and Waterbury, E. of Corona; 200 feet S. of Sampson St., 0.23 mile E. of Rimpau Ave., 20 feet E. of stone bins at gravel pit. Use: Washing gravel. Gravel 31-42. Bailey No. 3630X. | 15952B | 630 | *#2 | (^a) | 9/23/31 | 111 | ..... | 37 | 226 | 188 | 86 | 86 | 95 | 25 25 194 |
| E-291d-L-23 | W. H. Jamison, E. of Corona; 130 feet N. of 6th St., 0.62 mile E. of Porphyry Spur of A. T. & S. F. Ry. Use: Irrigation. Casing 1 sec. Perforated 55, 70, 90, 126, 140 1/2". Bailey No. 3630C. | 15972A | 651 | *#10 | (^a) | 10/ 2/31 | 121 | ..... | 32 | 296 | 82 | 121 | 121 | 91 | 22 22 181 |
| E-291e-L-23 | Kuster and Waterbury, E. of Corona; 250 feet S. of 6th St., 400 feet W. of A. T. & S. F. Ry branch line to Elsinore. Use: Irrigation. Bailey No. 3629D. | 15962A | 634 | x..... | (^a) | 9/23/31 | 157 | ..... | 24 | 256 | 96 | 161 | 161 | 108 | 29 29 157 |
| E-291f-L-23 | W. H. Jamison, E. of Corona; 0.37 mile SE. of Magnolia Ave., 66 feet E. of dirt road which is 0.15 mile SW. of intersection of 6th St. and Magnolia Ave. Use: Irrigation, domestic and cook. Gravel 30-80. Bailey No. 3632A. | 15972B | 663 | *#0 | (^a) | 9/23/31 | 92 | ..... | 34 | 293 | 82 | 78 | 78 | 73 | 26 26 167 |
| E-291g-L-23 | | | | | (^a) | 11/19/31 | 94 | ..... | 35 | 290 | 85 | 76 | 76 | 72 | 25 25 170 |

TABLE 19. WELLS IN TEMESCAL AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^3$ at $25^\circ C$) | Constituents (parts per million) | | | | | | | |
|-------------|--|-----------------|---------------------|-----------------------------|-------------------|-----------------------|--|----------------------------------|-----------------|-----------------------------|---------------------------------|------------------------------|--------------|----------------|-----|
| | | | | | | | | Boron (ppm) | Per cent sodium | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | |
| F-292a-M-23 | R. H. Verity Sons & Co., SE. of Corona; 0.5 mile SE. of Porphyry Road, 600 feet NE. of Ontario Ave. Use: Irrigation. Bailey No. 408A. | 15975 | 880 | *180 | (e) | 10/12/31 12/19/31 | 120 133 | ..... | 35 | 302* | 124 | 137 | 27 | 113 | |
| F-294b-L-23 | W. H. Rapson, E. of Corona; 1,420 feet SE. of Magnolia Ave., 150 feet NE. of Ontario Ave. Use: Irrigation. Casing: 16 inches. Perforated 92' 10" - 140' 10" 169' 170' 161' 201'. No. 3627A. | 15991 | 695 | *218 | (e) | April 1930 9/15/31 | 89' 1 | 0 25 | 44 | 330 3323 | 98 76 | 79 | 21 | 66 | 27 |
| F-294d-L-24 | Sherman Indian Institute, E. of Corona; 0.25 mile SE. of Magnolia Ave., 300 feet SW. of Lincoln St. Use: Domestic. Bailey No. 3627A. | 15991B | 716 | *180 | (e) | 10/2/31 11/19/31 | 82 85 | ..... | 44 | 288 277 | 60 | 69 | ..... | 54 | 20 |
| F-294e-L-23 | Riverside Valley Home Gardens Tract, E. of Corona; 125 feet NW. of Magnolia Ave., 30 feet SW. of Grant St. Use: Irrigation and domestic. Casing: 8 inches. Bailey No. 3628D. | 15981A | 667 | *200 | (e) | 10/2/31 11/19/31 | 134 138 | ..... | 39 | 311* | 181 | 95 | ..... | 110 | 23 |
| F-285-L-23 | Glass and Tuthill, E. of Corona; 80 feet SW. of Grant St., 0.15 mile SE. of Magnolia Ave. Use: Irrigation. Bailey No. 3628E. | 15982 | 671 | *200 | (e) | 10/2/31 11/19/31 | 90 92 | ..... | 41 | 326 329 | 60 | 74 | ..... | 68 | 20 |
| F-296-M-23 | Temescal Water Co., SE. of Corona; 3,500 feet N.E. of Highway 230 feet W. of A. T. & S. F. Ry. 300 feet S.E. of Lemon St. on W. edge of Temescal Wash. Use: Irrigation. Gravel 3-50. Bailey No. 469A. | 15985 | 742 | *70 | (e) | 10/5/31 12/14/31 | 100 111 | ..... | 29 | 281 275 | 53 | 261 248 | ..... | 117 109 | 28 |
| F-297a-M-23 | Temescal Water Co., SE. of Corona; 2.0 mile SE. of Porphyry Ave., 200 feet NE. of State Highway. Use: Irrigation. Bailey No. 461A. | 15986 | 850 | ..... | (e) | 10/12/31 12/18/31 | 111 111 | ..... | 20 | 262 | 52 | 262 | ..... | 107 | 31 |
| F-316-M-25 | Mrs. J. Salm, S. of Riverside; 75 feet E. and 140 feet N. of center of NE. $\frac{1}{4}$, Sec. 6, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. | 16004 | 1,325 | ..... | (e) | July 1930 | ..... | ..... | 134 | 284 | ..... | ..... | ..... | ..... | 824 |
| F-316a-M-25 | A. L. Gabrielson, S. of Riverside; 285 feet W. and 315 feet N. of center of NE. $\frac{1}{4}$, Sec. 6, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Domestic and irrigation. | 16004A | 1,325 | ..... | (e) | July 1926 | ..... | ..... | 92 | 142 | ..... | ..... | ..... | ..... | 824 |
| F-316b-M-25 | Mr. Hogarth, S. of Riverside; 80 feet W. and 230 feet S. of NE. corner, Sec. 7, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Domestic and irrigation. | 16065 | 1,320 | ..... | (e) | May 1928 | ..... | ..... | 23 | 160 | 51 | 51 | ..... | 34 | 22 |
| F-316c-M-25 | Isaac Stump, S. of Riverside; 640 feet E. and 320 feet S. of NW. corner of SW. $\frac{1}{4}$ of NW. $\frac{1}{4}$, Sec. 8, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. Casing: 4" x 4" dug well. | 16065A | 1,290 | 20 | (e) | May 1928 | ..... | ..... | 59 | 335 | 578 | 280 | ..... | 160 | 42 |
| F-316d-M-25 | H. E. Miller, S. of Riverside; 66 feet E. and 6 feet N. of NW. property at center of NE. $\frac{1}{4}$, Sec. 7, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. Dug well. | 16065B | 1,295 | 50 | (e) | Dec. 1927 | ..... | ..... | 152 | 320 | ..... | ..... | ..... | ..... | 173 |
| F-316e-M-25 | Honeywell Ranch, S. of Riverside; 60 feet W. and 15 feet N. of the NE. corner of SE. $\frac{1}{4}$ of SW. $\frac{1}{4}$ of NW. $\frac{1}{4}$, Sec. 8, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. | 16065C | 1,295 | 24 | (e) | May 1928 | ..... | ..... | 54 | 332 | 340 | 329 | ..... | 96 | 66 |
| F-317-M-25 | Frank Gonzalez, S. of Riverside; 185 feet S. and 115 feet W. of E. $\frac{1}{4}$ corner, Sec. 7, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. Casing 4 feet diameter, dug well. | 16066 | 1,300 | 41 | (e) | May 1928 | ..... | ..... | 40 | 225 | 100 | 38 | ..... | 52 | 14 |
| F-317a-M-25 | A. F. Patterson, S. of Riverside; 1,010 feet W. and 235 feet N. of E. $\frac{1}{4}$ corner, Sec. 7, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. Casing 4 feet diameter, dug well. | 16066A | 1,285 | 19 | (e) | Nov. 1927 | ..... | ..... | 150 | 116 | ..... | ..... | ..... | ..... | 2 |
| F-317b-M-25 | T. M. Frazier, S. of Riverside; 25 feet W. and 360 feet N. of the center of Sec. 8, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. | 16076 | 1,305 | 50 | (e) | Oct. 1927 | ..... | ..... | 202 | 400 | ..... | ..... | ..... | ..... | 2 |
| F-317c-M-25 | Mrs. Wm. Mardell, Well 1, 1,045 feet E. and 300 feet S. of SW. $\frac{1}{4}$ of SW. $\frac{1}{4}$, Sec. 17, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. | 16077 | 60 | (e) | Sept. 1926 | ..... | ..... | 160 | 64 | ..... | ..... | ..... | ..... | ..... |  |

TABLE 19. WELLS IN TEMESCAL AREA—Continued

| Well number | Location, and direction | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|-----------|---|--|--|-----------------------------|--|--|
| | | | | | | Boron from Na x 100 (K x 10 ⁴ at 25°C.) | Specific electro- conductance from Ca + Mg + Na | Per cent sodium from Na x 100 (Ca + Mg + Na) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) |
| E 3174 M 25 | Mrs. Wm. Mander, Well 2, S. of Riverside; 345 feet E. and 250 feet S. of the NE. corner of SW 1/4 of SW 1/4, Sec. 17, T. 4 S., R. 5 W. S. B. & M. In Cajalco Canyon. Use: Domestic and irrigation. | 16077A | 47 | (e) | Mar. 1928 | ..... | ..... | 164 | 35 | ..... | 143 |
| E 322 M 25 | Miner Lewis, S. of Riverside; 765 feet N. and 83 feet E. of the SW. corner of Sec. 9, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. Casing: 4 x 4, dug well, 60 feet of decomposed granite, bottom 20 feet shot. | 16086 | 1,385 | *60 | (e) | May 1928 | ..... | 39 | 160 | 45 | 42 |
| E 322a M 25 | John Taylor, S. of Riverside; 150 feet S. and 1,260 feet E. of center of Sec. 9, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. | 16096 | 1,370 | 20 | (e) | April 1928 | ..... | 250 | 990 | ..... | 30 |
| E 322b M 25 | Mrs. Hawins, S. of Riverside; 725 feet S. and 650 feet E. of center of Sec. 9, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. | 16096A | 1,350 | 73 | (e) | April 1928 | ..... | 314 | 425 | 253 | 116 |
| E 322 M 25 | Mr. Hollier, S. of Riverside; 820 feet S. and 200 feet W. of the center of Sec. 9, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Abandoned and filled up. Dug well. | 16100C | 1,360 | 50 | (e) | May 1928 | ..... | 54 | 345 | 400 | 63 |
| E 322 M 25 | Ben Yan Dell, S. of Riverside; 330 feet S. and 350 feet W. of the center of Sec. 9, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. | 16096D | 1,360 | 35 | (e) | May 1928 | ..... | 53 | 418 | 630 | 332 |
| E 322a M 25 | H. Peters, S. of Riverside; 750 feet E. and 350 feet S. of the SE. corner of NE 1/4 of NW 1/4, Sec. 10, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. | 16105 | 1,400 | ..... | (e) | June 1926 | ..... | 76 | 580 | 390 | 160 |
| E 326 M 26 | E. B. White, S. of Riverside; 145 feet W. and 160 feet N. of SE. corner of NE 1/4 of NW 1/4, Sec. 10, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. Casing: 4 feet diameter, coarse. Dug well. | 16105A | 1,395 | 25 | (e) | June 1930 | ..... | 510 | 745 | ..... | ..... |
| E 326 M 26 | E. B. White, S. of Riverside; 115 feet W. and 180 feet N. of SE. corner of NE 1/4 of NW 1/4, Sec. 10, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. | 16105B | 1,395 | ..... | (e) | Oct. 1927 | ..... | 21 | 256 | 67 | 46 |
| E 326 M 26 | R. H. Kirkpatrick, S. of Riverside; 115 feet W. and 50 feet N. of the SE. corner of SW 1/4 of NE 1/4 of SW 1/4, Sec. 11, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. Casing: 3 x 4, dug well with two 3 x 5 1/2 tunnels, 10 feet long, I. and W. | 16106 | 1,400 | ..... | (e) | May 1928 | ..... | 39 | 192 | 107 | 27 |
| E 332 M 26 | W. H. Wells, S. of Riverside; 200 feet W. and 30 feet N. of the SW. corner of NE 1/4 of SW 1/4 of Sec. 11, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. | 16124B | 1,470 | 32 | (e) | Aug. 1927 | ..... | 50 | 201 | 60 | 90 |
| E 332a M 26 | Willis Porter, S. of Riverside; 340 feet S. and 425 feet W. of the center of Sec. 11, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. | 16125A | 1,445 | 24 | (e) | Aug. 1927 | ..... | 59 | 398 | 248 | 123 |
| E 332b M 26 | A. D. Randall, S. of Riverside; 20 feet W. and 935 feet S. of E 1/4 Canyon. Use: Irrigation. Casing: 4 feet diameter, dug well. | 16136 | 1,495 | 55 | (e) | 4/20/26 | ..... | 220 | 81 | ..... | 100 |
| E 332 M 26 | Minor and Mosgrove, S. of Riverside; 700 feet S. and 200 feet W. of the center of Sec. 7, T. 4 S., R. 4 W., S. B. & M. In | 16156 | 1,551 | ..... | (e) | Aug. 1930 | ..... | 59 | 177 | 485 | 127 |
| E 337 M 27 | (a), (b) Canyon. Use: Domestic and irrigation. | ..... | ..... | (e) | 4/3/33 | 212 | 0.08 | 40 | 262 | 475 | 136 |

TABLE 19. WELLS IN TEMESCAL AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^8$ at 25°C) | Constituents (parts per million) | | | | | |
|-------------|---|---------------------|-----------------------------|-------------------|------------------------|---|----------------------------------|--|-----------------------------------|---------------------------------|-----------------------------|-------------|
| | | | | | | | Boron ppm | Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$ | Bicarbonate radicle (HCO_3^-) | Sulfate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Sodium (Na) |
| F-337a-M-26 | Lewis Jackson, S. of Riverside; 315 feet S. and 10 feet W. of the NW corner of NW 1/4 of SE 1/4, Sec. 12, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. | 16146 | 1,540 | (*) | Nov. 1926 June 1928 | ..... | ..... | ..... | 276 275 | 610 620 | ..... | ..... |
| F-337b-M-26 | Frank M. Smith, S. of Riverside; 98 feet W. and 205 feet S. of the NW corner of SW 1/4 of SE 1/4, Sec. 12, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. | 16146A | 1,520 | 50 | (*) | June 1929 | ..... | 40 | 195 | 142 | 190 | 80 |

* Log in files of Division of Water Resources.

^a Water levels in files of Division of Water Resources.

^b Includes small equivalent quantity of Carbonate (CO_3^{2-}).

^c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.

^d Analysis by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillbridge, et al.), in the Superior Court of the State of California, in and for the County of Riverside.

^e Analysis by Association Laboratory, Anaheim, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillbridge, et al.), in the Superior Court of the State of California, in and for the County of Riverside.

^f Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

^g Analysis by Edward S. Babcock and Sons, Riverside, California.

^h Analysis by United States Department of Agriculture, Rubidoux Laboratory, Rubidoux, California.

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA

| Well number | Location and description | Elevation of ground number | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^3$ at 25°C) | Per cent sodium | Constituents (parts per million) | | | | | | | |
|---------------|--|----------------------------|-----------------------------|-------------------|-----------|---|-----------------|----------------------------------|-----------------------|-------------------------------------|---|---|--------------|----------------|-------------|
| | | | | | | | | Boron ppm | Na + 100 Ca + Mg + Na | Chloride radicle (Cl ⁻) | Sulphate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| C-105a M-17 | Santa Ana Valley Irrigation Co., Well 8, W. of Olive; 100 feet W. of Batavia St.; 700 feet S. of Anaheim-Olive Blvd. Use: Irrigation. Casing: 24 inches. | 202 | 335 | 9/19/31 | 62.6 | 0.09 | 33 | 232 | 46 | 62 | 4 | 62 | 16 | 50 | |
| C-1106a-M-17 | Batavia Water Co., SW of Olive; 1,000 feet S. of Fletcher Ave., 1.50 miles E. of Batavia St. Use: Irrigation. Casing: 16 inches. Perforated 120' 143'-155'; 195' 166'-205' 216'; 221' 241'; 250' 280'; 295' 307'. | 195 | *x311 | 208 | 8/27/31 | 60.8 | ..... | 28 | 244 | 39 | 53 | 7 | 66 | 17 | 41 |
| C-1108 N-17 | Citrus Well Association, Villa Park; 300 feet S. of Villa Park Road, 15 feet W. of Wanda Ave. along W. side of S. P. R. R. Use: Domestic. | 300 | x550 | (d) | Oct. 1918 | ..... | ..... | 25 | *231 | 62 | 154 | 11 | 92 | 21 | 43 |
| C-1109 N-18 | Villa Park Mutual Water Co., Gray Tract Plant 1. Villa Park; 660 feet N. of Lincoln St., 900 feet W. of Center Drive. Use: Domestic and irrigation. Casing: 20 inches. Gravel 230'; 242'; 250'; 268'; 275'; 290'-301'; 320'-327'; 334'-337'; 343'-355'; 354'-368'; 424'-432'; 440'-458'; 466'-476'; 480'-494'; 498'-506'; 520'; 542'; 565'-568'. | 320 | *x576 | (e) | Oct. 1918 | ..... | 0.21 | 29 | *213 | 216 | 114 | 4 | 65 | 19 | 446 |
| C-1109d-N-18 | Villa Park Mutual Water Co., Plant 5. Villa Park; 1,630 feet E. of Center Drive, 1,350 feet S. of Villa Park Road. Use: Domestic and irrigation. Casing: 18 inches. Gravel 207'-286'; 319'-326'; 351'-362'; 362'-389'; 411'-419'; about 470'; about 512'. | 335 | *542 | (d) | Oct. 1918 | ..... | ..... | 25 | *262 | 39 | 177 | 8 | 86 | 29 | 52 |
| C-1109e-N-18 | Villa Park Mutual Water Co., Villa Park 35 feet W. of Sycamore St., 360 feet S. of Nerano Ave. Use: Irrigation. Casing: 20 inches. | 395 | 240 | (d) | Oct. 1918 | ..... | ..... | 14 | 253 | 31 | 200 | ..... | 72 | 16 | 43 |
| C-1109g-N-18 | John T. Carpenter Water Co., Well 1, NE. of Orange; 350 feet E. of Alameda St., 350 feet N. of Collins Ave., extended. Use: Abandoned in 1925, formerly irrigation. | 330 | 473 | (d) | Oct. 1918 | ..... | ..... | 41 | *328 | 67 | 226 | 8 | 76 | 39 | 113 |
| C-1109h-N-18 | John T. Carpenter Water Co., Well 2, NE. of Orange; 375 feet E. of Alameda St., 370 feet N. of Collins Ave., extended. Use: Irrigation. | 330 | 410 | (d) | Oct. 1918 | ..... | ..... | 26 | *262 | 31 | 173 | 8 | 81 | 15 | 74 |
| C-1110 N-18 | Villa Park Mutual Water Co., Gray Tract Plant 2. Villa Park; 600 feet N. of Lincoln St., 1,240 feet W. of Center Drive. Use: Irrigation. | 317 | 480 | (d) | Oct. 1918 | ..... | ..... | 24 | *244 | 35 | 176 | 10 | 84 | 29 | 48 |
| C-1112 N-18 | Santa Ana Valley Irrigation Co., Well 9, E. of Orange; 0.15 mile N. of Walnut Ave., 400 feet E. of Prospect Ave. Use: Irrigation. Casing: 20 inches. | 290 | x1,106 | 263 | 8/27/31 | 61.9 | ..... | 31 | *217 | 27 | 98 | 4 | 62 | 19 | 48 |
| C-1113-N-17 | David Hewes Mutual Water Co., E. of Orange; 0.12 mile W. of Prospect Ave., 0.25 mile S. of Chapman Ave. Use: Irrigation. Casing: 18 inches. Gravel 132'-140'; 150'-204'; 234'-238'; 270'-290'; 330'-430'. | 251 | *x430 | (d) | Nov. 1918 | ..... | ..... | 24 | 256 | 33 | 160 | 0 | 84 | 27 | 47 |
| C-1115 (1)-18 | A. M. Robinson, NE. of Santa Ana; 0.25 mile E. of Prospect Ave., 20 feet S. of Fairhaven Ave. Use: Not used since 1929. Casing: 24 inches. | 220 | x350 | (d) | Nov. 1918 | ..... | ..... | 35 | 233 | 45 | 79 | 1 | 58 | 17 | 54 |
| C-1150c-N-17 | City of Orange, Well 5. Orange; 100 feet N. of Almond Ave., 100 feet E. of Water St. Municipal. Gravel 65'-75'; 117'-133'; 156' 160'; 181'-185'; 185' 201'; 221'-239'; 251' 265'; 277'-297'. 301' 323'; 441' 489'; 520' 527'; 610' 627'; 652' 675'; 638' 723'. | 219 | *750 | (e) | 4/23/31 | ..... | ..... | 220 | 50 | 190 | ..... | ..... | ..... | 36 | |
| C-1151a-O-16 | City of Santa Ana Well 14. NW. of Santa Ana; 100 feet E. of Bustol St., 100 feet S. of Santiago Creek. Use: Municipal. Casing: 20 inches. Gravel 78'-94'; 105'-125'; 164'-182'; 246'-250'; 342' 340'; 380'-396'; 402' 405'; 417' 424'; 575' 603'; 605' 622'; 702' 715'; 750'-758'. | 120 | *1,050 | (e) | 4/23/31 | ..... | ..... | 20 | 222 | 35 | 30 | 51 | 7 | 65 | |
| C-1162b-O-16 | J. H. Stewart, W. of Santa Ana; 200 feet N. of W. 5th St., 100 feet W. of King St. Use: Not used. Casing: 12 inches. | 85 | x..... | (f) | 9/ 4/31 | ..... | ..... | ..... | *319 | 62 | ..... | ..... | ..... | 14 | |
| C-1162c-O-16 | Clarence L. Nelson, W. of Sullivan St. Use: Domestic. O. C. F. C. D. 600 feet W. of Sullivan St. Use: Surface Water Test Well 216. | 84 | ..... | (f) | 9/ 9/31 | ..... | ..... | 0.25 | *349 | 104 | 112 | 0 | 68 | 53 | |

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | |
|--------------|--|-----------------|---------------------|-----------------------------|-------------------|--------------------|--|-----------|-----------------------------|-----------------------------------|-------------------------------------|---------------------------------|------------------------------|
| | | | | | | | Specific electrical conductance ($K \times 10^8$ at 25°C) | Boron ppm | Na x 100 Ca + Mg + Na | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl ⁻) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) |
| C-1164a 0 16 | City of Santa Ana, Well 7, Santa Ana; 50 feet S. of First St., 25 feet E. of Flower. Use: Municipal. Casing: 16 inches. Perforated 420-435; 885-907. | 14525A | 104 | *x960 | (*) | 4/23/31 | 220 | 37 | 35 | | | | |
| C-1164b 0 16 | City of Santa Ana, Well 13, Santa Ana; 200 feet E. of Flower St., 75 feet N. of Walnut St., 300 feet S. of First St. Use: Municipal. Casing: 16 inches. Gravel 294-303; 324-345; 888-906. | 14525B | 104 | *x150 | (*) | 4/23/31 | 226 | 40 | 155 | | | | |
| C-1164d 0 16 | City of Santa Ana, Well 12 East, Santa Ana; 325 feet E. of Olive St., 175 feet N. of 6th St.; 25 feet E. of C-1191-O-16. Use: Municipal. Casing: 16 inches. Perforated 330-368; 440-456. | 14525K | 113 | *x466 | (*) | 4/23/31 | 214 | 25 | 145 | | | | |
| C-1164e 0 16 | City of Santa Ana, Well 15, Santa Ana; 150 feet S. of First St., 250 feet W. of Flower St. Use: Municipal. Casing: 26 inches. Perforated 214-225; 293-337; 340-350; 355-375; 470-490; 505-574; 875-942; 1020-1042. | 14525C | 103 | *1,140 | (*) | 4/23/31 9/17/31 | 84.4 | 0.12 | 22 | 232 265 | 47 69 | 150 101 | 8 100 |
| C-1165a-O-17 | Atchison, Topeka & Santa Fe Ry., Santa Ana; 200 feet S. of 4th St., 30 feet E. of A, T, & S, F Ry. Near depot. Use: Industrial. Perforated 4-70; 75-80; 130-140; 150-160; 280-300. | 14545A | 114 | *510 | 265 | 8/27/31 | 87.7 | 20 | 277 | 69 | 119 | 14 | 98 |
| C-1173a P 16 | La Bolsa Tile Co., SW. of Santa Ana; 1,200 feet S. of Edinger St.; 200 feet W. of Greenville Road. Use: Irrigation. Casing: 10 inches. | 14497 | 53 | 150 | 689 | 2/3/32 | 63.5 | 0.18 | 22 | 235 | 39 | 74 | 4 |
| C-1174b P 16 | S. H. Mandel's Col and W. R. McLutlock, SW. of Santa Ana; 700 feet E. of Greenville Road; 20 feet S. of Delhi Road. Use: Irrigation and domestic. Casing: 12 inches. | 14498 | 44 | x800 | 686 | 2/3/32 | 44.7 | 0.16 | 35 | 207 | 14 | 48 | 1 |
| C-1179a-P-17 | The Irvine Co., Plant 28, Well 428, S. of Tustin; 0.22 mile NW. of Redhill Ave., 0.23 mile NE. of A, T, & S, F Ry. Near Well 1236. Use: Irrigation. Perforated 424-432; 470-478. | 14577A | 92 | *700 | (*) | 1920 | 30 | 256 | 28 | 138 | 4 | 68 | 19 |
| C-1179d 0 17 | P. H. Ebel, S. of Tustin; 45 feet SW. of Mitchell Ave., 610 feet SE. of Newport Blvd. Use: Irrigation. | 14576 | 106 | 200 | (*) | Oct. 1918 | ..... | 25 | 243 | 34 | 140 | 8 | 81 |
| C-1180a P 17 | Owner unknown. Test hole, S. of Santa Ana; 100 feet E. of Main St., 100 feet S. of Sunflower Ave., extended. Casing: None. | 14330A | 34 | 6 | (*) | 12/11/30 | ..... | 418 | 4,319 | ..... | ..... | ..... | ..... |
| C-1191-0-16 | City of Santa Ana, Well 9, Santa Ana; 300 feet E. of Olive St., 175 feet N. of 6th St. Use: Municipal. Casing: 16 inches. Perforated 910-938; 1024-1030; 1070-1090. | 14525I | 113 | *x1,100 | (*) | 4/23/31 | ..... | 195 | 15 | 135 | ..... | ..... | ..... |
| C-1192 0 16 | City of Santa Ana, Well 8, Santa Ana; 75 feet S. of 1st St., 25 feet E. of Flower St., 25 feet S. of C-1164a-O-16. Use: Municipal. Casing: 18 inches. Perforated 100-140. | 14525D | 104 | *x151 | (*) | 4/23/31 9/17/31 | 64.1 | 0.10 | 26 | 227 235 | 41 36 | 155 74 | 9 72 |
| C-1193b-O-17 | C. James Katt, NE. of Santa Ana; 250 feet N. of 17th St., 1,050 feet W. of Yorba St. Use: Irrigation. Casing: 12 inches. | 14504B | 172 | x196 | (*) | 1920 | ..... | 13 | 226 | 46 | 122 | 12 | 83 |
| C-1194c P 17 | F. G. Fuller Ranch, E. of Santa Ana; 225 feet S. of 17th St., 900 feet W. of Prospect Ave. Use: Irrigation. Casing: 10 inches. | 14574C | 110 | 220 | (*) | Nov. 1918 | ..... | 21 | 232 | 47 | 118 | 14 | 81 |
| C-1195a 0 18 | Lemon Heights Water Co., E. of Tustin; 1,325 feet NE. of Irvine Blvd., 250 feet SE. of Newport Ave. Use: Abandoned and filled. New well drilled two feet from this well. | 14504 | 163 | (*) | Oct. 1918 | ..... | 26 | 201 | 30 | 147 | 14 | 67 | 21 |
| C-1205a P 16 | A. E. Selvidge, SW. of Santa Ana; 840 feet E. of Greenville Road, 90 feet N. of Delhi Road. Use: Domestic. Casing: 4 inches. | 14508 | 44 | 104 | 685 | 2/3/32 | 52.8 | 0.14 | 27 | 226 | 25 | 55 | 4 |
| C-1206c P 17 | F. A. Stewart, S. of Santa Ana; 75 feet W. of McClay St., 0.25 mile S. of McPadden St. Use: Domestic and irrigation. Casing: 8 inches. | 14547 | 42 | x44 | 308 | 9/17/31 | 154 | 0.09 | 16 | 320 | 137 | 362 | 18 |
| C-1207a 0 18 | The Irvine Co., Plant 40, Well 1180, SE. of Tustin; 200 feet SE. of Browne Ave., 200 feet NE. of Bryant Ave. Use: Irrigation. Casing: 16 and 18 inches. Perforated 35-347. | 14506A | 97 | *x418 | (*) | 1922 3/25/28 | 94.5 | 0.2 | 23 313 | 253 68 | 40 164 | 168 110 | 88 110 |
| C-1207b 0 18 | F. B. Browning, E. of Tustin; 1,500 feet SE. of Red Hill Ave., 70 feet NE. of Irvine Blvd. Use: Irrigation. Casing: 12 inches. Perforated 1,200-1,600; 1,617-1,747. | 14605 | 113 | *x10 | 270 | 9/3/31 | 110.1 | 0.12 | 27 | 238 | 160 | 127 | 13 |

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|--------------|---|---------------------|-----------------------------|-------------------|------------|--|--|---|--|---|---|---|--|--|---|-------------------|
| | | | | | | Specific electrical conductivity ($\text{K} \times 10$ at 25°C) | Boron ppm | Percent sodium $\text{Na} \times 100$ ($\text{Ca}^+ + \text{Mg}^+ + \text{Na}^-$) | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca^{2+}) | Magnesium (Mg^{2+}) | Sodium (Na^+) | |
| C-1207d-O-18 | The Irvine Co., Plant 45, Well 1159, E. of Tustin; 1,000 feet NE of Irvine Blvd.; 35 feet SE of Peters Canon Road; 1,285 feet NW of Myford Road; extended. Use: Domestic. Casing: 9 inches. Perforated 60-467. | 14616 | 145 | *469 | (4) (4) | 1924 Sept. 1929 | 6/17/20 5/20/25 9/25/28 5/15/29 6/8/29 7/3/29 | 52 0.40 172 169 0.39 170 0.65 0.36 | 53 63 52 51 52 44 68 | 262 348 342 355 346 296 366 | 110 230 240 234 234 205 114 | 141 200 240 237 232 191 114 | 7 92 172 95 95 41 33 | 30 28 172 (1) 41 49 30 | e170 e71 e124 e275 e214 e165 e206 e161 e135 e186 | |
| C-1207e-O-18 | The Irvine Co., Plant 46, Well 1194, SE. of Tustin; 2,500 feet SE. of Browning Ave.; 2,500 feet NE of Irvine Blvd. Use: Irrigation. Casing: 12 inches. Perforated 135-202. | 14616A | 62 | *271 | (4) | 1929 | 6/17/20 5/20/25 9/25/28 5/15/29 6/8/29 7/3/29 | 52 0.40 172 169 0.39 170 0.65 0.36 | 53 63 52 51 52 44 68 | 262 348 342 355 346 296 366 | 110 230 240 237 232 191 114 | 141 200 240 237 232 191 114 | 7 92 172 95 95 41 33 | 30 28 172 (1) 41 49 30 | e124 e275 e214 e165 e206 e161 e135 | |
| C-1207g-O-18 | The Irvine Co., Plant 70, Well 1233, E. of Tustin; 2,560 feet NE of Irvine Blvd.; 1,250 feet SE of Peters Canon Road; 70 feet NW of Myford Road; extended. Use: Irrigation. Casing: 12 inches. Perforated 200-215; 245-275. | 14626 | 163 | *x870 | (4) | Aug. 1929 | | | 52 | 318 | 142 | 364 | | 76 | 43 | e186 |
| C-1207h-O-18 | The Irvine Co., Plant 71, Well 1234, E. of Tustin; 110 feet SW. of Irvine Blvd.; 90 feet NW. of Peters Canon Road; 1,120 feet NW. of Myford Road. Use: Irrigation. Casing: 12 inches. Perforated 300-320; 331-430. | 14616B | 122 | *x1,007 | (4) | Aug. 1929 | | | 46 | 275 | 54 | 140 | | 54 | 26 | e95 |
| C-1207k-O-18 | F. B. Browning, Red Hill Groves Well 2, E. of Tustin; 1,350 feet SE. of Red Hill Ave.; 200 feet NE. of Irvine Blvd. Use: Irrigation. Casing: 15 inches. | 14605B | 114 | | (4) | 3/19/26 4/24/29 | 111 | 0.55 | 26 28 26 | 223 225 221 | 92 124 157 | 120 133 | | 86 94 116 | 26 30 26 | e53 e55 e44 |
| C-1207l-O-18 | Perry Lewis, E. of Tustin; 1,320 feet SE. of Red Hill Ave.; 1,640 feet NE. of Irvine Blvd.; 1,000 feet SW. of La Colina Drive. Use: Irrigation. | 14605C | 143 | 304 | (4) | Oct. 1918 | | | 33 | *204 | 39 | 86 | 5 | 52 | 22 | e50 |
| C-1207m-O-18 | Holmes Loan and Realty Co., E. of Tustin; 1,310 feet NE. of Irvine Blvd.; 1,000 feet SE. of Red Hill Ave. Use: Irrigation. Casing: 18 inches. | 14605D | 142 | 300 | (4) (4) | Nov. 1918 11/15/22 | ..... ..... | ..... 42 | 279 240 | 44 80 | 91 96 | 6 10 | 60 75 | 16 14 | e60 e40 | |
| C-1207n-O-18 | Holmes Loan and Realty Co., E. of Tustin; 660 feet SE. of Red Hill Ave., 100 feet SW. of 17th St. Use: Irrigation. Casing: 12 inches. | 14604 | 175 | 300 | (4) | Oct. 1918 Nov. 1918 | ..... ..... | ..... 40 | 253 229 | 381 361 | 152 160 | 44 39 | 131 122 | 55 56 | e166 e167 | |
| C-1208b-P-18 | The Irvine Co., Plant 50, Well 1199, SE. of Tustin; 0.27 mile SE. of Browning Ave.; 0.23 mile NE. of State Highway. Use: Irrigation. Casing: 20 inches. Perforated 475-1070. | 14597B | 87 | *x1,488 | (4) | 3/12/26 July 1926 3/25/29 | ..... ..... ..... | ..... 40 | 51 260 256 | 36 35 35 | 103 190 | 44 53 192 | 44 40 | 44 40 | e85 e50 | |
| C-1208e-P-18 | The Irvine Co., Plant 1, Well 554, Pit 22, SE. of Tustin; 0.22 mile SW. of Bryant Ave.; 0.51 mile NW. of Myford Road. Use: Irrigation. Casing: 15 inches. Perforated 175-186. | 14607 | 84 | *x194 | (4) | 7/23/20 6/25/28 2/18/29 3/25/29 | 134 0.2 0.2 0.2 | 27 30 299 317 | 271 298 90 98 | 80 106 106 241 | 197 198 106 142 | 18 188 (1) 332 | 113 188 (1) 332 | 30 30 (1) 332 | 70 94 e179 | |
| C-1208g-P-18 | The Irvine Co., Plant 32, Well 1154, SE. of Tustin; 250 feet SW. of Bryant Ave.; 0.22 mile NW. of Myford Road. Use: Irrigation. Casing: 16 inches. Perforated 35-454. | 14607D | 89 | *x470 | (4) | Dec. 1929 June 1927 | 0.10 | 47 | 308 33 | 117 305 | 289 178 | 28 555 | 128 182 | 17 65 | e161 e167 | |
| C-1208n-P-18 | The Irvine Co., Plant 73, Well 1236, SE. of Tustin; 200 feet SE. of Myford Road; 0.2 mile SW. of Irvine Road. Use: Irrigation. Casing: 15 inches. Perforated 324-915. | 14617A | 118 | *x926 | (4) | Aug. 1929 | ..... | 48 | 305 | 78 | 195 | ..... | 68 | 30 | e125 | |
| C-1209j-P-18 | The Irvine Co., Plant 26, Well 831, SE. of Tustin; 1,300 feet NW. of Myford Road; 100 feet SW. of State Highway 101 in Lot 40. Use: Abandoned and filled over. Casing: 15 inches. Perforated 50-14-200-710. | 14607E | 76 | *995 | (4) | Dec. 1920 | ..... | 35 | 275 | 23 | 110 | 1 | 46 | 31 | e97 | |
| C-1209a-P-18 | The Irvine Co., Plant 14, Well 730, SE. of Tustin; 500 feet SW. of State Highway 101, 50 feet SE. of Browning Ave. Use: Irrigation. Casing: 24 inches. | 14597D | 88 | *x250 | (4) (4) | 1920 3/25/29 | ..... ..... | 23 | 277 336 | 85 116 | 208 212 | 17 | 122 | 33 | e61 | |
| C-1210c-P-18 | The Irvine Co., Plant 31, Well 720, SE. of Tustin; 3,300 feet SE. of Browning Ave.; 1,340 feet NE. of A. T. & S. F. Ry. Center of Lot 35. Use: Not used. Casing: 12 inches. Perforated 180-192; 300-1260. | 14598B | 63 | *1,288 | (4) | 1920 | ..... | 56 | 183 | 28 | 155 | 0 | 39 | 16 | e97 | |
| C-1210d-P-18 | The Irvine Co., Plant 33, Well 1157, SE. of Tustin; 2,720 feet SE. of Browning Ave.; 2,310 feet NE. of A. T. & S. F. Ry. Use: Irrigation. Casing: 16 inches. Perforated 30-306. | 14598C | 66 | *330 | (4) | 1923 | ..... | 240 | 47 | 100 | ..... | 50 | 1 | 50 | ..... |  |

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA—Continued

| Well number | Location and description | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|--------------|---|---------------------|-----------------------------|-------------------|-------------------|---|-----------|------------------------------------|-----------------------------------|-----------------------------|---------------------------------|------------------------------|------------------|--------------------|-----------------|
| | | | | | | Specific electric conductance ($K \times 10^3$ at $23^\circ C$) | Boron ppm | Na $\times 100$ ($Ca + Mg + Na$) | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| C-1210e-P-18 | The Irvine Co., Plant 38, Well 1178, SE. of Santa Ana; 1,05 mile E. of Browning Ave., 2,200 feet NE. of Del Norte Road. Use: Irrigation. Casing: 16 inches. Perforated 35-335, where casing collapsed. | 49 | *x390 | (4) | 1923 | ..... | ..... | ..... | 262 | 142 | 100 | ..... | 50 | ..... | ..... |
| C-1210f-P-18 | The Irvine Co., Plant 52, Well 1200, SE. of Tustin; 0.32 mile NW. of Myford Road, 0.52 mile SW. of State Highway 101. Use: Irrigation. Casing: 20 inches. Perforated 319-1200. | 62 | *x1,344 | (4) | July 1926 | ..... | ..... | 61 | 235 | 29 | 98 | ..... | 28 | 15 | 95 |
| C-1210g-P-18 | The Irvine Co., Plant 10, Well 691, Pit 2, S. of Tustin; 2,560 feet SE. of Browning Ave., 1,250 feet NE. of A.T. & S.F.R.R. Use: Irrigation. Casing: 16 inches. Perforated 0-86. | 66 | *x86 | (4) | 1920 | 2,18/29 3/25/29 | ..... | ..... | 24 | 256 | 60 | 261 | 14 | 120 | 34 |
| C-1210h-P-18 | The Irvine Co., Plant 29, Well 744, Pit 4, SE. of Tustin; 4,550 feet SE. of Browning Ave., 330 feet NE. of A.T. & S.F.R.R. Use: Irrigation. | 59 | *x31 | (4) | 1922 | 2,18/29 3/25/29 | ..... | ..... | 58 | 300 | 75 | 402 | 0 | 83 | 46 |
| C-1210i-P-17 | The Irvine Co., Plant 30, Well 915, S. of Tustin; 30 feet SE. of Browning Ave., 100 feet SW. of A.T. & S.F.R.R. Use: Irrigation. Casing: 15 inches. Perforated 10a-h. | 69 | *x1,060 | (4) | 1920 | ..... | ..... | 63 | 213 | 19 | 96 | 0 | 30 | 9 | 87 |
| C-1210j-P-18 | Frances Mutual Water Co., SE. of Tustin; Well 1, within 50 feet of Well 10 or C-1210i-P-18. Use: Abandoned and filed in when Well 10 was drilled. | 68 | *x1,526 | (4) | Feb. 1919 | ..... | ..... | 60 | 308 | 87 | 142 | 0 | 51 | 22 | 150 |
| C-1210k-P-18 | Frances Mutual Water Co., Well 10, SE. of Tustin; 1,380 feet SE. of Browning Ave., 1,940 feet SW. of State Highway 101. Use: Irrigation. Casing: 20 inches. Perforated 160-220. Analyses, Feb. 1919, were sampled from depths of 1,157, 1,095, and 1,179 feet respectively. | 68 | *x1,526 | (4) | Feb. 1919 | ..... | ..... | 60 | 330 | 80 | 144 | 2 | 55 | 19 | 147 |
| C-1210l-P-18 | Frances Mutual Water Co., Well 2, SE. of Tustin; 2,465 feet SE. of Browning Ave., 1,925 feet SW. of State Highway 101, 70 feet S. of Well 12. Use: Not used since Well 12 (C-1210m-P-18) was drilled. Casing: 12 inches. | 75 | *100 | (4) | Aug. 1918 | ..... | ..... | 59 | 335 | 81 | 139 | 0 | 55 | 20 | 144 |
| C-1210m-P-18 | Frances Mutual Water Co., Well 12, SE. of Tustin; 2,430 feet SE. of Browning Ave., 1,880 feet SW. of State Highway 101, 70 feet N. of Well 2. Use: Irrigation. Casing: 20 inches. Perforated 115-265. | 75 | *x1,516 | (4) | Nov. 1930 | ..... | ..... | 19 | 320 | 117 | 380 | ..... | 180 | 50 | 70 |
| C-1210n-P-18 | The Irvine Co., Plant 27, Well 987, SE. of Tustin; 2,150 feet SE. of Browning Ave., 1,650 feet NE. of A.T. & S.F.R.R. Use: Not used. Casing: 15 inches. Perforated 36-92, 120-1060. Use: Irrigation. Casing: 20 inches. Perforated 150-1245. | 70 | *1,084 | (4) | 1923 | 2,18/29 3/25/29 | ..... | ..... | 259 | 67 | 172 | 4 | 82 | 25 | 74 |
| C-1210o-P-18 | The Irvine Co., Plant 41, Well 1182, N. of Irvine; 2,10 feet SW. of Trabuco Road, 0.47 mile NW. of Jeffrey Road. Use: Irrigation. Casing: 20 inches. Perforated 260-1570. | 157 | *x1,603 | (4) | 8/20/31 | ..... | ..... | 41 | 275 | 24 | 46 | 2 | 53 | 17 | 65 |
| C-1210e-P-18 | The Irvine Co., Plant 21, Well 1004, NW. of Culver Road. Use: Well abandoned and plant removed. Casing: 24 inches. Perforated 150-1245. | 82 | *1,290 | (4) | 1920 | ..... | ..... | 43 | 300 | 115 | ..... | 100 | 100 | 22 | 28 |
| C-1211f-P-18 | Frances Mutual Water Co., Well 9, N. of Irvine; 850 feet SE. of Culver Road, 70 feet NE. of Bryant Ave. Use: Irrigation. Casing: 20 inches. Perforated 235-1235. Analyses on 3/30/20 were from depths of 800, 1,000, 1,200, 1,300 and 1,350 feet, respectively. | 14628 | *x1,397 | (4) | 3/30/20 | ..... | ..... | 61 | ..... | 81 | 150 | 0 | 41 | 27 | 152 |
| C-1211j-P-18 | The Irvine Co., Plant 53, Well 1203, NW. of Irvine; 400 feet SE. of Culver Road, 100 feet NE. of Trabuco Road. Use: Irrigation. Casing: 20 inches. Perforated 285-1295. | 14629 | *1,485 | (4) | Jan. 1919 1923 | ..... | ..... | 52 | 372 | 54 | 142 | 0 | 54 | 30 | 130 |
| C-1211k-P-18 | The Irvine Co., Plant 80, Well 1245, SE. of Tustin; 60 feet SE. of Myford Road, 600 feet NE. of State Highway 101. Use: Irrigation. Casing: 20 inches. Perforated 807-1340. | 14668 | *x1,553 | (4) | 5/20/30 | ..... | ..... | 17 | 305 | 60 | 172 | ..... | 124 | 25 | 40 |

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA—Continued

| Well number | Location and description | Total depth of well in feet | Elevation of ground | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | |
|--------------|---|-----------------------------|---------------------|-------------------|--|---|------------------------------------|---|--|--|--|-------------------------------------|------------------------------|---------------------------------|--------------------------|
| | | | | | | Specific electrical conductivity ($\text{K} \times 10^{-3}$ at 25°C) | Boron ppm | Per cent sodium carbonate ($\text{Ca} : \text{Mg} + \text{Na}$) | Barbiturate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca^{2+}) | Magnesium (Mg^{2+}) | Sodium (Na^+) |
| C-1211m-P-18 | Frances Mutual Water Co., Well 7, N. of Irvine; 2,000 feet NW of Jeffrey Road; 50 feet SW. of Bryant Ave. Use: Abandoned and filled up. | 192 | ----- | (d) | Jan. 1919 | ----- | ----- | 68 | 336 | 54 | 134 | 0 | 40 | 14 | 2156 |
| C-1211n-P-18 | Frances Mutual Water Co., Well 6, N. of Irvine; 3,900 feet NW of Jeffrey Road; 50 feet SW. of Bryant Ave. Use: Abandoned. | 175 | *1,124 | (e) | Nov. 1918 | ----- | ----- | 55 | 250 | 270 | 141 | 0 | 84 | 24 | 182 |
| C-1211p-P-18 | W. L. West, E. T. McFadden and W. H. Walker, NW. of Irvine; 1,300 feet SE. of Culver Road; 650 feet SW. of State Highway 101. Use: Domestic. Casing: 12½ inches. (Gravel 358; 37; 397; 402). | 107 | *402 | (f) | Sept. 1929 | ----- | ----- | 50 | 332 | 232 | 140 | ----- | 100 | 30 | 169 |
| C-1211q-P-18 | Frances Mutual Water Co., Well 5, SE. of Tustin; 200 feet NW. of Culver Road; 50 feet NE. of Bryant Ave. Use: Abandoned. Casing: 12½ inches. | 130 | *870 | (e) | Aug. 1918 1924 | ----- | ----- | 63 | 305 | 51 | 124 | 1 | 40 | 14 | 2124 |
| C-1211r-P-18 | The Irvine Co., Penman Well 1, Well 1271. SE. of Tustin; 3,300 feet NW. of Culver Road 2,600 feet SW. of State Highway 101; 660 feet NW. and 40 feet NE. of S. corner of Lot 181. Use: Not Used; Casing: 7½ inches. Perforated 172-220. | 67 | *236 | (e) | 6/27/32 7/6/32 | ----- | ----- | 78 | 557 | 415 | 1,080 | ----- | 105 | 60 | 250 |
| C-1212d-P-19 | The Irvine Co., Plant 67, Well 1227, SE. of Tustin; 0.48 mile NE. of Irvine Blvd. 150 feet SE. of Culver Road. Use: Irrigation. Casing: 15 inches. Perforated 245-253; 288-296; 326-334; 356-360. | 188 | *x1,206 | (e) | Nov. 1928 Aug. 1929 | ----- | ----- | 63 | 366 | 60 | 140 | 40 | 22 | 150 | 155 |
| C-1213b-P-19 | The Irvine Co., Plant 65, Well 1225, NE. of Irvine; 0.48 mile NW. of Central Ave.; 150 feet SW. of Irvine Blvd. Use: Irrigation. Casing: 12 inches. Perforated 165-215; 245-285; 510-530; 550-575; 700-755. | 266 | *x861 | (b) | 3/25/29 6/8/29 6/8/29 7/3/29 Aug. 1929 | 176 0.28 0.87 0.99 0.99 | 48 44 43 43 43 | 342 306 312 329 290 | 322 210 358 329 506 | 304 344 370 314 210 | 322 344 370 314 210 | 95 114 143 143 104 | 57 54 88 88 50 | 199 183 268 276 206 | |
| C-1213c-P-19 | The Irvine Co., Plant 66, Well 1226, NE. of Irvine; 0.48 mile NE. of Irvine Blvd. 150 feet SE. of Jeffrey Read. Use: Irrigation. Casing: 12 inches. Perforated 25-270; 355-380; 450-500; 560-590; 660-700; 740-765. | 219 | *x1,660 | (e) | 7/25/22 7/10/23 9/25/28 2/18/29 3/25/29 8/20/31 | 178 0.3 0.3 0.3 0.3 0.3 | 61 54 36 36 383 329 | 305 323 329 329 329 329 | 184 161 174 174 164 160 | 418 164 456 470 216 150 | 418 0 114 143 230 150 | 110 83 254 104 80 | 30 23 (1) 50 | 280 165 163 276 206 | |
| C-1216b-P-19 | The Irvine Co., Plant 37, Well 1170. N. of Irvine; 0.47 mile NW. of Central Ave.; 50 feet NE. of Trabuco Road. Use: Irrigation. Casing: 20 inches. Perforated 310-580. | 240 | *x967 | (e) | July 1928 2/18/29 3/25/29 | ----- | ----- | 39 | 335 | 217 | 375 | ----- | 124 | 70 | 175 |
| C-1216d-P-19 | The Irvine Co., Plant 64, Well 1224, NE. of Irvine; 80 feet NW. of Central Ave.; 0.48 mile NE. of Trabuco Road. Use: Irrigation. Casing: 12 inches. Perforated 365-400; 420-450; 475-540. | 275 | *x830 | (e) | Sept. 1928 3/25/29 | ----- | ----- | 50 | 314 | 187 | 405 | ----- | 122 | 37 | 207 |
| C-1217a-Q-19 | Southern California Edison Co., Ltd., NE. of Irvine; 150 feet SE. of Trabuco Road; 0.45 mile SE. of Central Ave. Use: Domestic and plant. Casing: 6 inches. Perforated 378-388. | 278 | *x429 | (f) | 8/20/31 | ----- | ----- | ----- | 329 | 160 | 308 | ----- | ----- | ----- | ----- |
| C-1217e-Q-20 | The Irvine Co., Plant 58, Well 1186, E. of Irvine; in N. corner, Lot 300, Block 174, 2½ miles NE. of State Highway 101, ½ mile NW. of S. ranch line. Use: Irrigation. Casing: 9½ inches. Perforated below 160 feet. | 505 | *335 | (e) | Dec. 1923 1/19/31 Aug. 1931 8/21/31 | ----- | ----- | 28 | 292 | 59 | 90 | ----- | 65 | 23 | 46 |
| C-1217f-Q-20 | The Irvine Co., Well 298, E. of Irvine; 4,000 feet NE. of Irvine Blvd.; 1,100 feet SE. of Lambert Road extended. Use: Irrigation. Casing: 15 inches. Perforated 60-220. | 440 | *232 | (e) | Feb. 1920 1/24/22 | ----- | ----- | 45 | 323 | 62 | 185 | ----- | 54 | 18 | 156 |
| C-1217n-Q-19 | The Irvine Co., Plant 55, Well 1210, NE. of Irvine; 0.47 mile SW. of Trabuco Road; 150 feet NW. of Lambert Road. Use: Irrigation. Casing: 12 inches. Gravel 298; 444-463. | 276 | *x746 | (d) | May 1927 Sept. 1927 9/25/28 | ----- | ----- | 31 | 295 | 45 | 133 | Tr. | 68 | 22 | 295 |
| C-1217o-Q-19 | The Irvine Co., Plant 56, Well 1211, S. of Laguna Ave. Use: Irrigation. Casing: 1.5 in. l.c. | 177 | *898 | (d) | June 1927 | ----- | ----- | 36 | 292 | 61 | 160 | ----- | 80 | 32 | 176 |
| C-1217o-Q-19 | The Irvine Co., Plant 56, Well 1211, S. of Laguna Ave. Use: Irrigation. Casing: 1.5 in. l.c. | 177 | *898 | (d) | June 1927 | ----- | ----- | 36 | 292 | 65 | 240 | ----- | 88 | (1) | 115 |
| | | | | | | | | | | | | | 90 | 35 | 97 |

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA. Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth, feet | Laboratory number | Date | Specific electrical resistance, $\text{K}_{\alpha} \text{ at } 10^{\circ}\text{C}$ | Boron ppm | Constituents (parts per million) | | | | | | |
|--------------|--|-----------------|---------------------|-------------------|--|--|--|--|---|-------------------------------------|--|--|--|--|-------------|
| | | | | | | | | | Boron Na x 100 $\frac{\text{Ca}}{\text{Na}} + \text{Na}$ | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Chloride radicle (Cl ⁻) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| C 1217p-Q 19 | The Irvine Co., Plant 57, Well 1214, E. of Irvine; 0.47 mile SW of Trabuco Road, 0.53 mile SE of Lambert Road. Use: Irrigation. Casing: 12 inches. Perforated 180-426. | 13463 | 294 | *527 | (d) (d) (d) (b) (b) (d) | Oct. 1927 12/9/27 July 1928 9/25/28 3/25/29 Aug. 1932 | 0.2 | 62 42 50 42 | 94 274 65 297 86 61 | 262 274 65 297 86 61 | 176 172 166 154 196 160 | 19 21 100 100 80 80 | 109 e93 e117 e107 | e125 | |
| C 1217q-Q 19 | The Irvine Co., Plant 61, Well 1222, E. of Irvine; 0.4 mile SE of Central Ave.; 0.12 mile SW of Trabuco Road. Use: Irrigation. Casing: 12 inches. Perforated 240-463. | 13453 | 285 | *5762 | (d) | July 1928 | ..... | ..... ..... ..... ..... ..... ..... | 55 262 268 162 | 170 170 170 | 224 224 170 | 84 84 80 | 25 25 32 | e180 | |
| C 1217s-Q-19 | The Irvine Co., Plant 60, Well 1221, SE. of Irvine; 0.22 mile SE. of Lambert Road, extended 100 feet SW of A.T. & S.F.R. Use: Irrigation. Casing: 12 inches. Perforated 230-474. | 13507 | 245 | *5649 | (d) (b) | July 1928 3/25/29 | ..... ..... | ..... ..... ..... ..... ..... ..... | 55 262 268 162 | 170 170 170 | 224 224 170 | 84 84 80 | 25 25 32 | e180 | |
| C 1218-R 20 | McGinn Ranch, El Toro; 1,800 feet NW of Aliso Canyon Road, 1,200 feet SW of A.T. & S.F.R. Use: Irrigation. Casing: 12 inches. | 13508 | 400 | 409 | (d) (d) | 5/8/22 Mar. 1925 | ..... ..... | ..... ..... ..... ..... ..... ..... | 85 143 130 | 355 355 | 355 594 | 52 116 | 9 25 | 450 e339 | |
| C 1218a-R 20 | W.A. Cornelius, El Toro; 2,000 feet SW. of A.T. & S.F.R., 500 feet SE. of Aliso Canyon Road. Use: Irrigation. | 13507A | 398 | ..... | (d) | 1922 | ..... | ..... ..... ..... ..... ..... ..... | ..... 200 30 | 75 | 75 | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... | ..... ..... ..... ..... ..... ..... |  |
| C 1218b-R 20 | R.H. Prothero, El Toro; 3,900 feet SE. of Aliso Canyon Road, 2,200 feet SW. of A.T. & S.F.R. Use: Not used. Casing: Dug well with concrete pit. | 13518 | 380 | 42 | (d) | 5/8/22 | ..... ..... ..... ..... ..... ..... | ..... 50 332 | 145 332 | 145 332 | 160 160 | 160 160 | 25 25 | e230 | |
| C 1218-R 20 | R.H. Prothero, S. of El Toro; 4,100 feet SE. of Aliso Canyon Road, 2,500 feet SW. of A.T. & S.F.R., 350 feet S. of C 1218b, 1/2 mile SW. of 1/2 mile Irrigation. Casing: 12 inches. Gravel 36-52. Shale 60-1000. | 13518A | ..... | *1,000 | (d) | Sept. 1930 | ..... ..... ..... ..... ..... ..... | ..... 69 | 268 | 238 | 400 | 400 | 80 | 24 | e310 |
| C 1218d-R 20 | G.H. Scott, El Toro; 5,800 feet SE. of Aliso Canyon Road, 1,000 feet W. of A.T. & S.F.R. Use: Irrigation. Casing: 12 inches. | 13518B | ..... | 110 | (d) | Dec. 1929 | ..... ..... ..... ..... ..... ..... | ..... 44 | 317 | 177 | 493 | 493 | 170 | 35 | e205 |
| C 121-Q 20 | The Whiting Co., Well 1, NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, then 0.17 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 930, 10 feet E. of road, in Block 15, Tract 910. Use: Irrigation. | 13535 | ..... | ..... | (d) | 1929 | ..... ..... ..... ..... ..... ..... | ..... 20 | 202 | 48 | 92 | 92 | 67 | 23 | e31 |
| C 121-Q 20 | The Whiting Co., Well 2, NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, then 0.17 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 930, 10 feet E. of road, in Block 15, Tract 910. Use: Irrigation. | 13535A | ..... | ..... | (d) | 1929 | ..... ..... ..... ..... ..... ..... | ..... 26 | 194 | 60 | 170 | 170 | 73 | 32 | e50 |
| C 121-Q 20 | The Whiting Co., Well 1, NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, then 0.17 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 930, 10 feet E. of road, in Block 15, Tract 910. Use: Irrigation. | 13534 | ..... | ..... | (d) | 1929 | ..... ..... ..... ..... ..... ..... | ..... 50 | 226 | 120 | 1,052 | 1,052 | 211 | 49 | e332 |
| C 121-Q 20 | The Whiting Co., Well A, NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, then 0.17 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 930, 10 feet E. of road, in Block 15, Tract 910. Use: Irrigation. | 13534A | ..... | ..... | (d) | 1929 | ..... ..... ..... ..... ..... ..... | ..... 34 | 170 | 73 | 292 | 292 | 93 | 33 | e55 |
| C 121-Q 20 | The Whiting Co., Well B, NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, then 0.17 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 930, 10 feet E. of road, in Block 15, Tract 910. Use: Irrigation. | 13534B | ..... | ..... | (d) | 1929 | ..... ..... ..... ..... ..... ..... | ..... 30 | 54 | 54 | 670 | 670 | 170 | 54 | 5 |
| C 121-Q 20 | Mr. Osterman, No. of El Toro; 2,000 feet S. and 690 feet E. of SW. corner, Sec. 12, T. 6 S. R. 8 W., S. B. & M. Use: Dug well; Casing: 4 x 4 in.; 15 inches. Perforated 125-804. | 13533 | - | 35 | (d) | 3/18/25 | ..... ..... ..... ..... ..... ..... | ..... 69 | 97 | 97 | ..... ..... ..... ..... ..... ..... | ..... 170 | 170 | 54 | 5 |
| C 1219g-Q 20 | Prospect Ranch, Jerome-Browning Well, NE. of El Toro; 2,200 feet E. and 2,400 feet S. of NW corner, Sec. 12, T. 6 S. R. 8 W., S. B. & M. Use: Irrigation. Casing: 12 inches. Perforated 210-220-274-401. | 13533 | ..... | *804 | (d) | Sept. 1929 | ..... ..... ..... ..... ..... ..... | ..... 28 | 244 | 64 | 100 | 100 | 90 | 15 | -50 |
| C 1219g-Q 20 | The Irvine Co., Plant 68, Well 1230, S. of Irvine; 0.48 mile SE. of Laguna Ave., 100 feet SW. of Valencia Ave., extended. Use: Irrigation. Casing: 12 inches. Perforated 210-220-274-401. | 13443A | 203 | *5894 | (d) | Aug. 1929 | ..... ..... ..... ..... ..... ..... | ..... 48 | 223 | 154 | 196 | 196 | 84 | 26 | e132 |
| C 1220-Q 19 | The Irvine Co., Plant 59, Well 1247, SE. of Irvine; 1.03 miles SE. of Laguna Ave., 100 feet SW. of Valencia Ave., 400 feet SW. of State Highway. Use: Irrigation. Casing: 12 inches. Perforated 200-420. | 13454C | 205 | *535 | (d) | 1922 | ..... ..... ..... ..... ..... ..... | ..... 38 | 260 | 117 | 178 | 178 | 87 | 32 | e100 |
| C 1220p-Q 19 | The Irvine Co., Plant 59, Well 1246, S. of Irvine; 75 feet SE. of State Highway 101, 60 feet NW. of Laguna Blvd. Use: Not used. Casing: 15 inches. | 13454 | 220 | *x918 | (d) | 1/3/25 July 1928 3/25/29 | ..... ..... ..... ..... ..... ..... | ..... 59 | 244 | 174 | 295 | 295 | 90 | 20 | e200 |
| C 1220p-Q 19 | The Irvine Co., Plant 59, Well 1246, S. of Irvine; 75 feet SE. of Laguna Ave., 100 feet SW. of Valencia Ave., 400 feet SW. of State Highway. Use: Irrigation. Casing: 12 inches. Perforated 200-420. | 13454 | 220 | *x918 | (d) | 1/3/25 July 1928 3/25/29 | 54 | 244 | 168 | 280 | 280 | 90 | 25 | e184 | |

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA. Continued

| Well number | Location and description | Total depth of well in feet | Elevation of ground | Laboratory number | Date | Specific electrical conductance (K x 10 ⁻³ at 25°C) | Per cent sodium | Constituents (parts per million) | | | | | | |
|--------------|--|-----------------------------|---------------------|-------------------|------|--|-----------------|----------------------------------|-------------------------------|-----------------------|------------------------------------|------------------------------------|--------------|----------------|
| | | | | | | | | Boron ppm | Mg x 100 (Ca + Mg + Na) | Chloride radicle (Cl) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) |
| C-1220-Q-19 | The Irvine Co., Plant A7, Well 1103, Irvine; 0.25 mile SE. of Central Ave., 100 feet NE. of Valencia Ave. Use: Irrigation. | 13433B | 187 | x..... | (d) | 3/18/25 | 52 | 244 | 156 | 188 | 50 | 24 | 150 | c160 |
| C-1222b-Q-18 | The Irvine Co., Well 1114, W. of Irvine; 0.51 mile SE. of Jeffrey Road, 5.01 miles SW. of Valencia Ave. Use: Irrigation. Casing: 12 inches. Perforated 41s 434. | 13422B | 138 | *x506 | (d) | 5/20/25 | 0.2 | 48 | 300 | 188 | 233 | 100 | 30 | c154 |
| C-1222e-P-18 | Robert Jeffrey, SE. of Tustin; 3,000 feet SE. of Culver Road, 2,600 feet NE. of A. T. & S. F. Ry., near center of NE. line of Lot 153. Use: Irrigation. Casing: 15 inches. Perforated 300' 900'. | 13420 | 136 | *969 | (d) | 4/1/31 | ..... | 244 | 103 | 173 | 150 | 113 | 113 | c150 |
| C-1222d-P-18 | Wm. Jeffrey, NW. of Irvine; 50 feet NW. of Jeffrey Road, 50 feet SW. of State Hwy. 111, 100 feet. Use: Irrigation. Casing: 15 1/2 inches. Perforated 30' 1240'. | 13431 | 156 | *1,240 | (d) | 4/14/31 | ..... | 301 | 199 | 199 | 135 | 146 | 146 | c150 |
| C-1222e-Q-18 | The Irvine Co., Plant 39, Well 1170, W. of Irvine; 2,550 feet NW. of Jeffrey Road, 75 feet SW. of Valencia Ave. Use: Irrigation. Casing: 20 inches. Gravel-packed well. | 13411 | 101 | *x1,586 | (d) | 9/25/28 | 0.1 | 48 | 32 | 262 | 110 | 216 | 0 | c120 |
| C-1222j-Q-18 | The Irvine Co., Plant 35, Well 1161, W. of Irvine; 2,000 feet NE. of Jeffrey Road, 150 feet NE. of Valencia Blvd. Use: Irrigation. Casing: 20 inches. Perforated 263' 1593'. | 13422C | 142 | *x1,503 | (d) | 9/25/28 | 104 | 0.20 | 44 | 250 | 112 | 127 | 0 | c101 |
| C-1222k-P-18 | The Irvine Co., Plant 48, Well 1177, NW. of Irvine; 3,400 feet SE. of Culver Road, 140 feet SW. of A. T. & S. F. Ry. Use: Irrigation. Casing: 16 inches. Perforated 60' 520'. | 13421A | 99 | *540 | (d) | 2/18/29 | ..... | 43 | 36 | 250 | 722 | 158 | 94 | c275 |
| C-1222n-P-18 | The Irvine Co., Plant 70, Well 1234, NW. of Irvine; 0.73 mile SE. of Culver Road, 0.43 mile NE. of Valencia Blvd. Use: Irrigation. | 13401B | 99 | x..... | (d) | 4/18/30 | ..... | 39 | 34 | 344 | 406 | 408 | 408 | c142 |
| C-1222o-Q-18 | A. J. McFadden, W. of Irvine; 75 feet NW. of Jeffrey Road, 70 feet NE. of Valencia Ave. Use: Not used, capped below ground. New well 200 feet deep, 12 feet SE. and 30 feet SW. of this well. | 13421B | 125 | 600 | (d) | Dec. 1918 | ..... | 39 | 235 | 128 | 161 | 0 | 93 | c98 |
| C-1222p-Q-18 | C. B. Cubbins, NW. of Irvine; 0.51 mile NW. of Jeffrey Road, 1,000 feet NW. of Valencia Ave. Use: Irrigation. | 13411A | 104 | 78 | (d) | Dec. 1918 | ..... | 31 | 280 | 87 | 198 | 0 | 106 | c83 |
| C-1222q-Q-18 | C. B. Cubbins, NW. of Irvine; 0.51 mile NE. of Jeffrey Read, 900 feet NE. of Valencia Ave. Use: Irrigation. | 13411B | 102 | 114 | (d) | Dec. 1918 | ..... | 35 | 293 | 183 | 345 | 28 | 138 | c142 |
| C-1222r-Q-19 | The Irvine Co., Plant 17, Well 1113, Irvine; 180 feet SW. of State Highway 101, 520 feet SE. of Central Ave. Use: Irrigation. Casing: 15 inches. Perforated 255'-690'. | 13442A | 200 | *720 | (b) | 2/18/29 | ..... | 310 | 106 | 180 | 116 | 94 | 88 | c173 |
| C-1223-Q-18 | The Irvine Co., Plant 9, Well 107, W. of Irvine; 1,200 feet NE. of Harkle Road, 55 feet SE. of Jeffrey Road. Use: Not used. Casing: 15 1/2 inches. Perforated 255' 290'. | 13412 | 116 | *x301 | (d) | Jan. 1919 | ..... | 64 | 223 | 159 | 66 | 0 | 49 | c142 |
| C-1224-Q-18 | The Irvine Co., Plant 13, W. of Irvine; 0.65 mile SE. of Culver Road, 150 feet SW. of Harkle Road. Use: Domestic. Casing: 15 1/2 inches. | 13402 | 96 | x310 | (d) | 1920 | 160 | 0.1 | 70 | 235 | 214 | 42 | 2 | c153 |
| C-1224b-Q-18 | The Irvine Co., Well 1238, W. of Irvine; 2,700 feet NW. of Jeffrey Road, 2,730 feet NE. of Harkle Road. In S. corner of Lot 193. Use: Not used. Casing: 8 inches. Perforated 200'-318'. | 13402A | 100 | *951 | (d) | 10/2/29 | ..... | 26 | 244 | 62 | 123 | 123 | 64 | c50 |
| C-1224c-P-18 | The Irvine Co., Plant 52, Well 1246, SE. of Tustin; 90 feet NW. of Culver Road, 90 feet NE. of Valencia Ave. Use: Irrigation. Casing: 20 inches. Perforated 110' 100'. | 13400 | 67 | *1,145 | (d) | 7/3/30 | ..... | 20 | 225 | 105 | 82 | 82 | 70 | c35 |

(1) 1 m. = 3.30 feet. 1 foot = 0.3048 m.

TABLE 20. WELLS IN SANTA ANA IRVINE AREA (continued)

| Well number | Location and description | Location number | Total depth of well in feet | Laboratory number | Date | Specific electric conductivity ($\times 10^{-3}$ at 25°C) | Per cent sodium | Constituents (parts per million) | | | | | | | |
|--------------|---|-----------------|-----------------------------|-------------------|------|--|-----------------|----------------------------------|----------------------------|-----------------------------|-------------------------------------|------------------------------------|-------------------------------|-------------|-----|
| | | | | | | | | Boron ppm | $\text{Na} \times 100$ ppm | $\text{Ca} + \text{Mg}$ ppm | Silicate radicle (SO ₄) | Nitrile radicle (NO ₃) | Manganite (MnO ₄) | Sodium (Na) | |
| C-1224-Q-1* | The Irvine Co., Plant 76, Well 1239, W. of Irvine, 0.40 mile SE. of Culver Road, 0.25 mile SW. of Valencia Blvd. Use: Irrigation. Casing: 20 inches. Perforated 305-795. | 13401A | 83 | *X1120 | (d) | Oct. 1929 | ..... | 49 | 200 | 146 | 50 | ..... | 50 | 22 | 45 |
| C-1224f-Q-1* | The Irvine Co., Plant 11, Well 939. W. of Irvine; 2,665 feet SE. of Culver Road, 1.350 feet N.E. of Culver Road, at center of NW line of Lot 200. Use: Irrigation. Casing: 15 inches. Perforated 300-385. | 13402B | 87 | *X388 | (d) | 1020 | 97.2 | 57 | 238 | 198 | 120 | 0 | 72 | 1* | 156 |
| C-1225e-Q-17 | The Irvine Co., Plant 10, Well 471, SE. of Santa Ana; 1,260 feet SE. of intersection of Lane Road and Culver Road, 1,260 feet SE. and 400 feet SW. of N. corner of Lot 210. Use: Domestic, only, formerly irrigation. Casing: 12 inches. Perforated 306-322; 394-402. | 13383A | 71 | *408 | (d) | 7/23/20 | 102 | 90 | 247 | 191 | 5 | 0 | 9 | 6 | 206 |
| C-1225f-Q-1* | The Irvine Co., Plant 12, W. of Irvine; 3,300 feet SW. of Hale Road, 3,200 feet SE. of Culver Road. Use: Not used. Casing: 12 inches. | 13393 | 90 | ..... | (e) | 8/21/28 | 1.00 | 95 | 244 | 188 | 6 | ..... | 9 | 1* | 217 |
| C-1227b-Q-1* | The Irvine Co., Plant 75, Well 1241, S. of Tustin; 0.25 mile SW. of Delhi Road, 300 feet NW. of Culver Road. Use: Irrigation. Casing: 20 inches. Perforated 400-420; 500-520. | 13391 | 73 | *X865 | (d) | 2/18/29 | ..... | 300 | 176 | 58 | 14 | ..... | 8 | 8 | 301 |
| C-1227c-P-1* | The Irvine Co., Plant 78, Well 1243, S. of Tustin; 100 feet NE. of Delhi Road, 250 feet NW. of Culver Road. Use: Irrigation. Casing: 20 inches. Perforated 410-610. | 13391A | 69 | *X1103 | (d) | 3/11/30 | ..... | 45 | 252 | 174 | 140 | ..... | 77 | 40 | 263 |
| C-1227d-P-1* | The Irvine Co., Well 1247, S. of Tustin; 3,700 feet NW. of Culver Road, 60 feet N.E. of Delhi Road. Use: Not used. Casing: 20 inches. Perforated 407-1012 or, finally, 1012-407; 410-410. | 13380 | 52 | *1,166 | (d) | 8/15/30 | ..... | 47 | 242 | 178 | 72 | ..... | 60 | 31 | 213 |
| C-1227e-P-1* | The Irvine Co., Well 1248, S. of Tustin; 3,700 feet NW. of Culver Road, 60 feet N.E. of Delhi Road. Use: Not used. Casing: 20 inches. Perforated 407-1012 or, finally, 1012-407; 410-410. | 13372 | 48 | *X808 | (d) | 1920 | ..... | 31 | 244 | 78 | 50 | 60 | 23 | 23 | 29 |
| C-1227f-Q-17 | The Irvine Co., Plant 25, Well 1042, S. of Santa Ana; 0.51 mile NW. of Culver Road, 1.27 miles SW. of Delhi Road. Use: Irrigation. Casing: 12 inches. Gravel-sand 240-260; 588-595; 598-740. | 13390 | 68 | *1,026 | (d) | 2/15/29 | ..... | 95 | a248 | 180 | 14 | 0 | 5 | 2 | 211 |
| C-1227m-P-1* | The Irvine Co., Plant 22, Well 1057, S. of Tustin; 1,320 feet SW. of Valencia Ave., 60 feet NW. of Culver Road. Use: Domestic and stock. Casing: 15 inches. Perforated 30-900; 990-1010. | 13340A | 40 | *592 | (d) | 4/26/32 | ..... | 64 | 396 | 460 | 715 | ..... | 140 | 1* | 501 |
| C-1228g-P-17 | W. Pollard, Well 12, S. of Tustin; 2,200 feet SE. of Newport Blvd., 0.85 mile N.E. of Lane Road. Use: Irrigation. | 13330C | 34 | *4,430 | (d) | 5/28/31 | ..... | 40 | 153 | 53 | 106 | 106 | 78 | 22 | 7 |
| C-1230b-P-17 | The Irvine Co., Well 1253, S. of Santa Ana; 1,320 feet SE. of Newport Blvd., 95 feet NE. of Lane Road. Use: Not used. Casing: 20 inches. Analysis on 5/28/31 from bottom stratum. June 27, 1931, 12-inch casing collapsed at 550 feet (20-inch casing from 0 to 408.5 feet), leaving 750 feet of 4-inch cleaning line and 2 joints of 2-inch air line in well. | 1454SE | 55 | *1,010 | 262 | 8/27/31 | 34.6 | 83 | a131 | 13 | 42 | 0 | 3 | 6 | 75 |
| C-1231c-P-17 | Holy Sugar Co., Well 1, S. of Santa Ana; 900 feet N. of Dyer Road, 545 feet W. of S. P. R. in NW corner of Holy Sugar Co.'s Dyer St. plant. Use: Industrial. Casing: 12 inches. Open bottom and not perforated. | 14579A | 57 | *1,346 | (d) | 1923 | ..... | 93 | 256 | 1085 | 152 | ..... | 41 | 7 | 801 |
| C-1231c-P-17 | The Irvine Co., Plant 44, Well 935, S. of Tustin; 1,270 feet NE. of Delhi Road, 45 feet SE. of Browning Ave., in N. corner of Lot 32. Use: Irrigation. Casing: 15 inches. Perforated 390-410; 449-454; 500-506; 720-740; 750-762; 800-810; 850-870; 150-1526. Analysis in May, 1932, having per cent Sodium of 39, was taken after some of lower strata was shot off. | 14579A | 57 | ..... | (d) | 2/18/29 | ..... | 65.5 | 0.38 | 97 | 152 | ..... | 3 | 1* | 153 |

TABLE 20. WELLS IN SANTA ANA-IRVING AREA—Continued

| Well number | Location and description | Location number | Elevation of ground | Total depth of well in feet | Laboratory number | Date | Specific electrical conductivity at 25°C. | Boron ppm | Per cent sodium | Per cent calcium | Magnesium (Mg) | Sulfate radicle (SO ₄) | Nitrate radicle (NO ₃) | Chloride radicle (Cl ⁻) | Bicarbonate radicle (HCO ₃) | Constituents (parts per million) | |
|--------------|--|-----------------|---------------------|-----------------------------|-------------------|---|---|----------------|-------------------|------------------|-------------------|------------------------------------|------------------------------------|-------------------------------------|---|----------------------------------|-----------------------------|
| | | | | | | | | | | | | | | | | Na x 100 Ca + Mg + Na | Na x 100 Ca + Mg + Na |
| C-1232c-P-17 | The Irvine Co., Plant 4, Well 100, S. of Tustin; 1,270 feet NE. of Delhi Road, 50 feet SW. of Red Hill Ave. in N. corner of Lot 94. Use: Not used. Casing: 15 inches. Perforated 30-35, 150-180. | 1456SC | 67 | *199 | (4) | 7/23/20 | ..... | ..... | 40 | 206 | 34 | 136 | 5 | 39 | 40 | 80 | |
| C-1233-P-17 | The Irvine Co., Plant 5, Well 1251, S. of Tustin; 30 feet SW. of Delhi Road, 50 feet SE. of Newport Blvd. Use: Not used. Casing: 20 inches. Gravel-packed well. | 14558 | 66 | x..... | (4) | 7/23/20 2/9/31 | ..... | ..... | 18 | 232 a222 | 35 | 150 60 | 8 | 62 | 23 | c38 e24 | |
| C-1233a-P-17 | The Irvine Co., Plant 51, Well 1251, S. of Tustin; 200 feet SW. of Delhi Road, 0.24 mile NW. of Red Hill Ave. Use: Irrigation. Casing: 20 inches. Gravel-packed well. | 14558A | 63 | *x1,186 | (4) | Feb. 1931 | ..... | ..... | 18 | a222 | 35 | 60 | ..... | 62 | 22 | c24 | |
| C-1234a-P-17 | Fitzpatrick Bros. and E. Culberson, S. of Santa Ana; 1,384 feet N. of McWay St. Use: Irrigation. Casing: 15½ inches. Water from stratum at 400 feet, shell beds below 515 feet. | 1454SC | 70 | 715 | (4) | June 1925 30/7 9/17/31 927 5/4/32 | 76.1 0.08 75.9 0.12 | 27 26 25 | 252 232 229 | 36 34 39 | 122 155 148 | 74 6 9 | 74 83 85 | 23 23 25 | 45 45 45 | | |
| C-1236b-P-17 | Holly Sugar Co., Well 4, S. of Santa Ana; 75 feet S. of Dyer Read, 150 feet W. of Dyer Read intersection with Newport Blvd., 50 feet E. of Well 3. Use: Industrial. Perforated 450-452. | 14540B | 50 | *345 | 261 | 8/27/31 | 46.6 | ..... | 40 | 198 | 16 | 55 | 0 | 41 | 12 | 47 | |
| C-1236c-P-17 | The Irvine Co., Plant 51, Well 1185, S. of Santa Ana; 3,100 feet NE. of Lane Road, 60 feet SW. of Newport Ave. Use: Irrigation. Casing: 15 inches. Perforated 220-320, 380-740. | 14549C | 42 | *775 | (4) (d) | 1923 July 1926 | ..... | ..... | 42 47 | 160 263 | 21 17 | 42 50 | 0 | 30 | 11 | c40 e50 | |
| C-1243a-Q-16 | The Irvine Co., Plant 16, Well 1038, S. of Santa Ana; 1,250 feet SE. of Newport Blvd., 0.68 mile NE. of Palisades Road. Use: Irrigation. Casing: 12 inches. Perforated 420-570. | 13322A | 45 | *952 | (4) | 1920 | ..... | ..... | 92 | a405 | 23 | 22 | 0 | 5 | 5 | e165 | |
| C-1243c-Q-16 | Santa Ana Heights Water Co., S. of Santa Ana; 550 feet SE. of Newport Blvd., 120 feet SW. of Palisades Road. N. of Santa Ana Country Club. Use: Municipal. Casing: 16 inches. | 13312B | 33 | x720 | 60 (0) | 6/16/31 4/12/32 | 101.3 | ..... | 94 | a256 | 195 178 | 1 | 0 | 4 | 5 | 218 | |
| C-1244d-Q-16 | Newport Heights Irrigation District, S. of Santa Ana; 100 feet NE. of Palisades Road, 550 feet NW. of Santa Ana Ave., extended. W. of reservoir. Use: Irrigation. | 13313C | 45 | ..... | (4) (d) | 1920 July 1932 | ..... | ..... | 90 | a226 | 92 | 3 | 0 | 6 | 5 | 146 | |
| C-1244d-Q-16 | The Irvine Co., Plant 15, Well 715, S. of Santa Ana; 150 feet S. of Palisades Road, 1,130 feet W. of Santa Ana Ave. Near Well 283. Use: Domestic irrigation. | 13323 | 25 | ..... | (4) (d) | 1920 4/27/22 | ..... | ..... | 92 84 | a358 a268 | 143 110 | 14 41 | 0 | 7 | 6 | c21a e162 | |
| C-1244i-Q-16 | The Irvine Co., Plant 7, S. of Santa Ana; 375 feet NE. of Palisades Road, 1,650 feet SE. of Santa Ana Ave. Use: Abandoned and filled in 1932. | 13323 | 25 | ..... | (4) | 1920 4/27/22 | ..... | ..... | 77 43 | 232 256 | 50 138 | 25 165 | 0 3 | 17 80 | 6 25 | c102 e104 | |
| C-1245b-Q-16 | Whittier Ranch, SW. of Santa Ana; 200 feet E. of N. line of Banning Tract, 200 feet E. of Old Santa Ana Road, 1,500 feet S. of Adams Ave. Use: Domestic and irrigation. | 13293 | 63 | ..... | 654 | 1/26/32 | 37.3 | 0.18 | 72 | 192 | 14 | 20 | 0 | 17 | 5 | 73 | |
| C-1254-P-15 | Owner unknown. SW. of Santa Ana; 300 feet E. of E. levee of Santa Ana River, 50 feet S. of Talbert Road. In old pump house. Irrigation. Casing: 7 inches. | 14479 | 35 | x..... | (1) | 11/17/31 | ..... | ..... | ..... | a114 | 20 | ..... | ..... | ..... | ..... | ..... |  |

• Log in files of Division of Water Resources.

x Water levels in files of Division of Water Resources.

* Includes small equivalent quantity of Carbonate (CO₃).† Includes sulfate (SO₄) determined by turbidity method.

‡ Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligrams per liter calculated to equivalent quantity of Sodium.

§ Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

|| Analysis by Charles Dickens, Oakland, California.

¶ Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium.

** Calcium determined from 1 liter water sample, 10°-Vitadex. Ca = total Calcium. Mg = total Magnesium.

TABLE 21. SURFACE AND SUBSOIL WATERS IN SANTA ANA-IRVINE AREA

| Number | Location and description | Elevation of ground | D. & sharp second-foot | Laboratory number | Date | Specific electrical conductivity ($K \times 10^4$ at $25^\circ C$) | Constituents (parts per million) | | | | | |
|--------------|--|---------------------|------------------------|-------------------|-----------|--|----------------------------------|-----------------|-----------|----------------------------------|-----------------------------|-------------|
| | | | | | | | P. r. sodium | $Na \times 100$ | Boron ppm | Sulphate radicle (SO_4^{2-}) | Chloride radicle (Cl^-) | Sodium (Na) |
| S15718-M-18 | SURFACE WATERS Santiago Creek, NE of Villa Park. Sampled from Serrano Water Co. and John T. Carpenter Water Co. diversion box, 0.5 mile above mouth of canyon, in SW 1/4 of Sec. 13, T. 4 S., R. 9 W. Canal diverts from creek 0.12 mile upstream. Discharge given is combined discharge of Santiago Creek and Serrano and Carpenter Canal from U. S. G. S. unpublished records. Use: Irrigation. | S15718 | 425 | (*) | Oct. 1938 | --- | 26 | 292 | 28 | 1 | 86 | 38 |
| | | | 3 | (*) | June 1937 | 2.22/32 | 0.26 | 295 | 32 | 106 | 161 | |
| | | | 4 | (*) | 6/20/32 | 93.4 | 0.16 | 314 | 30 | 107 | 60 | |
| | | | 6 | (*) | 6/20/32 | 91.5 | 0.12 | 296 | 34 | 2 | 44 | |
| | | | | | 6/20/32 | 61.1 | 0.15 | 220 | 14 | 129 | 43 | |
| | | | | | 5/21/32 | 73.3 | 0.10 | 256 | 20 | 163 | 27 | |
| | | | | | 6/18/32 | 64.7 | 0.05 | 241 | 0 | Tr. | 30 | |
| | | | | | | | | | | | 30 | |
| S13260a-P-16 | SUBSOIL WATERS Newport Drainage District, tile drain outlet, SW. of Santa Ana; 1 mile W. of Fairview Ave., 0.35 mile N. of Gisler St. at NW. corner of Pomery Ranch. | S13260a | 60 | (*) | 6/19/32 | 1/19/32 | 347 | 327 | 250 | 18 | 105 | |
| | | | | | 2/3/32 | 259 | 0.46 | 167 | 957 | 10 | 154 | |
| | | | | | | | 57 | 284 | 167 | | 82 | |
| S13262-Q-15 | SUBSOIL WATERS Newport Drainage District, open drainage ditch, SW. of Santa Ana. Sampled at O. C. F. C. D. drainage gaging station 10.5 miles N. of Adams Ave., 5,600 feet W. of Fairview Ave. The drainage comes in about 1.25 miles up drain. | S13262 | 60 | (*) | 6/1/32 | 2/3/32 | 259 | 0.41 | 290 | 170 | 264 | |
| | | | | | | | 54 | 294 | 110 | | | |
| S13281-P-15 | SUBSOIL WATERS Newport Drainage District, tile drain manhole, SW. of Santa Ana; 25 feet W. of Fairview Ave., 1,000 feet N. of Gisler St. | S13281 | 29 | (*) | 6/1/32 | 2/3/32 | 232 | 0.43 | 305 | 110 | | |
| | | | | | | | 54 | 296 | 98 | | | |
| S13291-P-16 | SUBSOIL WATERS Newport Drainage District, tile drain manhole, SW. of Santa Ana; 0.5 mile S. of Huntington Road, 15 feet E. of Old Santa Ana Road. | S13291 | 30 | (*) | 6/1/32 | 2/3/32 | 248 | 0.46 | 207 | 52 | | |
| | | | | | | | 54 | 347 | 306 | | | |
| S13300-P-16 | SUBSOIL WATERS Newport Drainage District, tile drain, S. of Santa Ana; 1,000 feet E. of Greenville Road, 15 feet N. of Wakeham Ave. | S13300 | 33 | (*) | 6/1/32 | 2/3/32 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,302 | | | |
| S13301-Q-16 | SUBSOIL WATERS Delhi Drainage District, tile drain manhole, S. of Santa Ana. Sampled at O. C. F. C. D. drainage gaging station 8.30 feet SW. of Palisades Road, 1,400 feet S. of Newport Ave. | S13301 | 30 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 425 | 1,976 | 1,000 | |
| | | | | | | | 54 | 343 | 1,006 | | | |
| S13313-Q-16 | SUBSOIL WATERS Delhi Drainage District, open drainage ditch, N. of Newport SW. of Palisades Road at The Irvine Co. weir. | S13313 | 20 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,006 | | | |
| S13314-Q-16 | SUBSOIL WATERS The Irvine Co. open drainage ditch, SE. of Santa Ana. Sampled on N. line of Lane Road, 6,300 feet NW. of Culver Road. | S13314 | 5 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,006 | | | |
| S13352-Q-17 | SUBSOIL WATERS The Irvine Co., open drainage ditch, SE. of Santa Ana. Sampled at O. C. F. C. D. drainage gaging station 6 on N. line of Lane Road, 1,05 miles NW. of Culver Road. | S13352 | 36 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,006 | | | |
| S13362-Q-17 | SUBSOIL WATERS Newport Drainage District, tile drain manhole, SW. of Santa Ana; 15 feet N. of Delhi Road, 1,200 feet E. of Greenville Road. | S13362 | 35 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,006 | | | |
| S1440-P-16 | SUBSOIL WATERS Newport Drainage District, tile drain manhole, SW. of Santa Ana; 900 feet W. of Greenville Road, 0.6 mile N. of Talbert Road. | S1440 | 42 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,006 | | | |
| S14508-P-16 | SUBSOIL WATERS Newport Drainage District, tile drain manhole, SW. of Santa Ana; 1,200 feet E. of Greenville Road, 2,000 feet S. of Delhi Road. | S14508 | 44 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,006 | | | |
| S14509-P-16 | SUBSOIL WATERS Newport Drainage District, tile drain manhole, SW. of Santa Ana; 1,200 feet E. of Greenville Road, 2,000 feet S. of Delhi Road. | S14509 | 40 | (*) | 6/1/32 | 4/1/31 | 61.3 | 0.20 | 427 | 193 | 75 | |
| | | | | | | | 54 | 343 | 1,006 | | | |

^a Includes small equivalent quantity of Carbonate (CO_3^{2-}).^b Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^c Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.^d Analysis by Orange County Flood Control District, Santa Ana, California.

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER

| Number | Location and description | Elevation of ground number | Distance in second- feet | Labora- tory number | Date | specific elec- trical condi- tance (K ₁ 10- at 25°C) | Per cent sodium Na x 100 Ca + Mg + Na | Constituents (parts per million) | | | | | |
|-------------|--|----------------------------------|-----------------------------------|---------------------------|----------|---|--|----------------------------------|--|--|--|--|-----|
| | | | | | | | | Boron phim | Bicar- bonate radical (HCO ₃) | Chlo- ride radical (Cl ⁻) | Sul- phate radical (SO ₄) | Nitrate radical (NO ₃) | |
| S5628 D-20 | San Antonio Creek, NW of Island, Sampled from tailrace of Southern California Edison Co., Inc. Power house, 4 miles above mouth of canyon. Discharge given is combined discharge of San Antonio Creek and Southern California Edison Canal, from W. S. P. No. 721 and U. S. G. S. unpublished records. | 3,250 | 11.9 | 104 | 7/3/31 | 28.4 | 13 | 150 | 0 | 14 | 1 | 45 | 10 |
| | | | 9.7 | 216 | 8/12/31 | 28.5 | 9 | 168 | 0 | 14 | 1 | 46 | 12 |
| | | | 8.2 | 282 | 9/10/31 | 31.6 | 4 | 165 | 0 | 14 | 1 | 45 | 10 |
| | | | 7.6 | 446 | 10/16/31 | 28.6 | Tr. | 163 | 2 | 16 | 1 | 45 | 10 |
| | | | 7.4 | 494 | 11/9/31 | 28.8 | 0.04 | 163 | 0 | 16 | 1 | 45 | 10 |
| | | | 8.4 | 689 | 12/14/31 | 29.3 | Tr. | 168 | 0 | 8 | 1 | 44 | 10 |
| | | | 13.6 | 622 | 1/14/32 | 28.5 | 0.04 | 168 | 0 | 8 | 1 | 44 | 10 |
| | | | 6.1 | 753 | 2/16/32 | 27.9 | Tr. | 168 | 0 | 8 | 1 | 44 | 10 |
| | | | 6.1 | 635 | 3/17/32 | 27.7 | 0.05 | 168 | 0 | 8 | 1 | 44 | 10 |
| | | | 6.0 | 905 | 4/15/32 | 26.3 | 0.08 | 156 | 2 | 10 | 1 | 43 | 7 |
| | | | 4.4 | 987 | 5/10/32 | 25.0 | 0.05 | 137 | 0 | 14 | 1 | 43 | 7 |
| | | | 3.3 | 1047 | 6/17/32 | 25.3 | 0.02 | 143 | 0 | 14 | 1 | 43 | 7 |
| | | | 2.2 | 1165 | 7/15/32 | 26.6 | 0.07 | 149 | 0 | 14 | 1 | 43 | 7 |
| | | | 16.6 | 1280 | 8/15/32 | 27.2 | 0.07 | 156 | 0 | 10 | Tr. | 42 | 7 |
| | | | 12.1 | 1393 | 9/19/32 | 27.6 | 0.02 | 156 | 0 | 10 | Tr. | 42 | 7 |
| S4562 E-21 | Cucamonga Creek, 6 miles N. of Upland. Sampled at U. S. G. S. gauging station in NE 1/4 Sec. 7, T. 1 N., R. 6 W., S. B. & M. Discharge is from U. S. G. S. unpublished records. | 2,550 | 17 | 837 | 3/17/32 | 26.6 | 0.06 | 156 | 2 | 14 | 0 | 39 | 10 |
| S18561 E-23 | Day Creek, 6 miles N. of Eltiwanda. Sampled at U. S. G. S. gauging station in SW 1/4 Sec. 8, T. 1 N., R. 6 W., S. B. & M. 0.25 mile below junction of two main forks. Discharge is from U. S. G. S. unpublished records. | 2,900 | 4.6 | 836 | 3/17/32 | 25.0 | 0.02 | 140 | 2 | 7 | 0 | 41 | 8 |
| S16393 C-23 | Lytle Creek, N. fork, NW of San Bernardino. Sampled one mile above Gibran Ranch. Discharge estimated when sampled. | 3,500 | 6 | (J) | 3/12/30 | 38.0 | Tr. | 189 | 0 | 24 | 1 | 51 | 12 |
| S16459 E-25 | Lytle Creek, NW of San Bernardino. Sampled from creek at intake of Fontana power house canal, 1.25 miles NW of from Cajon Creek Road on E. side of Lytle Creek Canyon Road. During spring of 1932 70 lbs. of CuSO ₄ per 24 hours was added to flow in power canal 1500 feet below this station. Lab. No. 1307 was sampled at SI8704-E-26, as a comparison to Lab. No. 1306 at this station. | 2,220 | - | 1306 | 9/2/32 | 32.7 | 0.02 | 8 | 189 | Tr. | 27 | - | 57 |
| S18704 E-26 | Lytle Creek, NW of San Bernardino. Sampled front canal race at Fontana power house, 150 feet NE. of Riverside Ave., 2.1 miles NW of Highland Ave. Discharge given is combined discharge of Lytle Creek and Fontana pipe line from W. S. P. No. 721 and U. S. G. S. unpublished records. | 1,580 | 27 | (C) | 9/7/30 | Tr. | - | 173 | 3 | 24 | 1 | 50 | 12 |
| | | 17.5 | 103 | 7/3/31 | 31.5 | - | 15 | 177 | 0 | 21 | Tr. | 48 | 12 |
| | | 15.1 | 217 | 8/12/31 | 31.6 | - | 11 | 180 | 2 | 21 | Tr. | 49 | 13 |
| | | 13.6 | 289 | 9/10/31 | 35.0 | 0.12 | 8 | 183 | 0 | 21 | Tr. | 49 | 12 |
| | | 14.6 | 432 | 10/13/31 | 32.0 | 0.01 | 180 | 0 | 21 | 180 | 0 | 12 | 6 |
| | | 13.6 | 493 | 11/9/31 | 32.1 | 0.02 | 180 | 0 | 21 | 180 | 0 | 12 | 6 |
| | | 15.2 | 588 | 12/14/31 | 36.1 | 0.01 | 10 | 204 | 2 | 25 | 1 | 56 | 10 |
| | | 23 | 625 | 1/14/32 | 31.8 | 0.02 | 180 | 2 | 25 | 1 | 56 | 10 | |
| | | 92 | 752 | 2/16/32 | 25.5 | 0.01 | 137 | 0 | 137 | 0 | 137 | 0 | 12 |
| | | 61 | 827 | 3/15/32 | 26.0 | 0.01 | 143 | 4 | 152 | 2 | 11 | 1 | 40 |
| | | 49 | 904 | 4/15/32 | 26.7 | 0.02 | 11 | 152 | 2 | 11 | 1 | 40 | 8 |
| | | 38 | 991 | 5/20/32 | 26.7 | 0.08 | 149 | 0 | 149 | 0 | 149 | 0 | 8 |
| | | 30.3 | 1054 | 6/17/32 | 27.8 | 0.02 | 152 | 0 | 152 | 0 | 152 | 0 | 8 |
| | | 30.3 | 1171 | 7/15/32 | 28.8 | 0.02 | 159 | 0 | 159 | 0 | 159 | 0 | 8 |
| | | 41.2 | 1281 | 8/15/32 | 33.8 | 0.03 | 192 | 0 | 192 | 0 | 192 | 0 | 7 |
| | | 44 | 1307 | 9/2/32 | 35.4 | 0.03 | 186 | 0 | 186 | 0 | 186 | 0 | 7 |
| | | 40 | 1394 | 9/19/32 | 35.2 | 0.08 | 198 | 0 | 198 | 0 | 198 | 0 | 7 |
| | | 40 | 1478 | 10/15/32 | 35.6 | 0.08 | 195 | 0 | 195 | 0 | 195 | 0 | 7 |
| | | 1538 | 11/14/32 | 34.1 | 0.04 | 12 | 192 | 2 | 192 | 2 | 192 | 2 | 11 |
| | | 1090 | 1/16/33 | 34.7 | 0.04 | 183 | 0 | 183 | 0 | 183 | 0 | 183 | 11 |
| | | 1755 | 2/16/33 | 32.5 | 0.04 | - | - | - | - | - | - | - | 11 |
| S16434 C-24 | Lower Pine Creek near Keenbrook. Sampled 550 feet above U. S. G. S. gauging station and 200 feet below Lone Pine Road crossing, or 550 feet N. and 800 feet W. of the S. 1/4 corner, Sec. 12, T. 2, S. 6 W., S. B. & M. Rising water is low San Andreas fault. Discharge from W. P. Rose. | 2,942 | 0.02 | (d) | 10/19/32 | 78.8 | 0.11 | 9 | 354 | 14 | 14 | 2 | 110 |
| S16433 C-24 | Lone Pine Creek, N. of Keenbrook. Sampled at U. S. G. S. gauging station 560 feet W. and 100 feet N. of the S. 1/4 corner, Sec. 12, T. 2, N. 6 W., S. B. & M. Rising water is low San Andreas fault. Discharge from W. P. Rose. | 2,610 | 0.9 | 829 | 3/17/32 | 74.4 | 0.02 | 12 | 326 | 7 | 145 | 4 | 100 |
| | | 0.8 | 900 | 4/15/32 | 76.9 | 0.02 | 12 | 333 | 11 | 153 | 2 | 100 | 35 |
| | | 0.75 | 995 | 5/14/32 | 80.1 | 0.16 | 9 | 332 | 9 | 153 | - | - | 25 |
| | | 0.44 | 1057 | 6/17/32 | 81.1 | 0.06 | 12 | 336 | 12 | 153 | - | - | - |
| | | 0.36 | 1175 | 7/12/32 | 84.4 | 0.07 | 12 | 338 | 12 | 153 | - | - | - |
| | | 0.39 | 1284 | 8/15/32 | 84.3 | 0.06 | 12 | 332 | 11 | 153 | - | - | - |
| | | 0.41 | 1401 | 9/17/32 | 84.1 | 0.14 | 12 | 336 | 11 | 153 | - | - | - |
| | | 0.4 | 1489 | 10/12/32 | 83.1 | 0.10 | 12 | 332 | 7 | 153 | - | - | - |
| | | 0.48 | 1553 | 11/16/32 | 82.1 | 0.08 | 12 | 339 | 9 | 153 | - | - | - |
| | | 0.5 | 1611 | 12/14/32 | 82.4 | 0.04 | 11 | 329 | 9 | 153 | - | - | - |
| | | 0.9 | 1694 | 1/17/33 | 87.4 | 0.07 | 12 | 305 | 14 | 219 | 2 | 104 | 35 |
| | | 0.9 | 1757 | 2/14/33 | 79.1 | 0.05 | 12 | 320 | 14 | 219 | 2 | 104 | 35 |

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER -Continued

| Number | Location and description | Location number | Elevation of ground | Discharge in second-feet | Laboratory number | Date | Specific electrical conductivity (K x 10 at 25°C.) | Constituents (parts per million) | | | | | | | | | |
|--------------|---|-----------------|---------------------|--------------------------|-------------------|----------|--|----------------------------------|-----------------------|---------------------------------------|--|---------------------------------------|--------------|----------------|-------------|----|----|
| | | | | | | | | Boron ppm | Na x 100 (Ca + Na) | Sulfate radicle (SO ₄) | Chloride radicle (Cl ⁻) | Nitrate radicle (NO ₃) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | | |
| S19433b-C-24 | Mathis Creek (E. branch of Lone Pine Creek), S. of Cozy Dell, Sampled 200 feet below Old Cajon Highway, or 560 feet N. and 220 feet W. of the S. $\frac{1}{4}$ corner, Sec. 12, T. 2 N., R. 6 W., S. B. & M. Discharge from W. P. Rowe. | S1943,B | 2,643 | 0.01 | 11,16/32 | 74.6 | 0.06 | 18 | 348 | 15 | 120 | 10 | 95 | 28 | *35 | | |
| S19442-C-24 | Cajon Creek, S. of Cozy Dell. Sampled at Old Road crossing 500 feet NE, or 200 feet W. and 1,100 feet S. of the E. $\frac{1}{4}$ corner, Sec. 12, T. 2 N., R. 6 W., S. B. & M. Discharge from W. P. Rowe. | S19442 | 2,670 | 0.11 | (4) | 10,19/32 | 67.9 | 0.12 | 27 | 357 | 22 | 54 | Tr. | 19 | *48 | | |
| S19443-C-24 | Cajon Creek, S. of Cozy Dell. Sampled at foot of bluff below A. T. & S. F. Ry. at San Andreas fault, 300 feet NE, of Cajon Highway, or 1,100 feet W. and 720 feet N. of Sh. corner, Sec. 12, T. 2 N., R. 6 W., S. B. & M. Discharge from W. P. Howe. | S19443 | 2,643 | 0.13 | (4) | 11,16/32 | 67.2 | 0.08 | ----- | 354 | 21 | ----- | ----- | ----- | ----- | | |
| S19443a-C-24 | Cajon Creek, N. of Keenbrook. Sampled at U. S. G. S. gauge station, 340 feet E. and 200 feet N. of S. $\frac{1}{4}$ corner, Sec. 12, T. 2 N., R. 6 W., S. B. & M., 200 feet N. of Cajon Highway. Discharge from U. S. G. S. unpublished records. | S19443A | 2,940 | 1.6 | 7.4 | 333 | 3.17/32 | 56.5 | 0.04 | 21 | 290 | 11 | 61 | 4 | 73 | 20 | 32 |
| S19443b-C-24 | Waterman Canyon Creek, N. of San Bernardino. Sampled at U. S. G. S. gauging station in NE $\frac{1}{4}$ Sec. 6, T. 1 N., R. 4 W., S. B. & M. Discharge from U. S. G. S. unpublished records. | S19443B | 2,150 | 1.2 | (4) | 3,12/30 | 34.0 | 0.06 | 19 | 345 | 12 | 123 | 3 | 97 | 29 | 39 | |
| S19569 E 27 | Devil Canyon Creek, NW of San Bernardino. Sampled at U. S. G. S. gauging station in SW $\frac{1}{4}$ Sec. 2, T. 1 N., R. 4 W., S. B. & M. Discharge from U. S. G. S. unpublished records and W. P. No. 706. | S19569 | 1,950 | 1.1 | 832 | 3.17/32 | 39.0 | 0.01 | 12 | 210 | 7 | 31 | 0 | 54 | 14 | 12 | |
| S195820 E 28 | Waterman Canyon Creek, N. of San Bernardino. Sampled at U. S. G. S. gauge station in SW $\frac{1}{4}$ Sec. 2, T. 1 N., R. 4 W., S. B. & M., 600 feet above old toll house and 1 mile NW of Arrowhead Springs. Discharge from U. S. G. S. unpublished records and W. P. No. 706. | S195820 | 2,150 | 1.2 | (4) | 3,14/30 | 27.4 | 0.02 | 31 | 171 | 9 | 20 | 39 | 6 | 25 | 38 | |
| S195822 E 28 | Waterman Canyon Creek. Sampled at diversion weir 400 feet E. of Arrowhead Highway, 850 feet S. of P. E. Ry. crossing, 750 feet S. of N. $\frac{1}{4}$ corner, Sec. 14, T. 1 N., R. 4 W., S. B. & M. Discharge from N. $\frac{1}{4}$ estimated by U. S. D. A. Other discharges estimated by U. S. G. S. | S195822 | 1,650 | 1 | (4) | 8/12/31 | 54.4 | 0.49 | 49 | 146 | 36 | 203 | 40 | 14 | e102 | 63 | |
| S195831-E 28 | Strawberry Creek, S. of Arrowhead Springs. Sampled at U. S. G. S. gauging station in SE $\frac{1}{4}$, Sec. 11, T. 1 N., R. 4 W., S. B. & M. at Del Rosa Water Co.'s diversion dam. Discharge from U. S. G. S. unpublished records. | S195831 | 1,700 | 7 | 828 | 3.15/32 | 35.0 | 0.29 | 50 | 128 | 16 | 59 | 0 | 26 | 8 | 44 | |
| S195841-T 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195841 | 1,600 | 0.7 | 221 | 8/12/31 | 30.4 | 0.28 | 127 | 10 | 19 | 0 | 28 | 0 | 19 | 0 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 1.7 | 491 | 1/9/31 | 27.7 | 0.08 | 22 | 0 | 34 | 0 | 22 | 6 | 18 | 22 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 5.3 | 586 | 1/14/31 | 23.8 | 0.05 | 155 | 4 | 5 | 0 | 24 | 7 | 17 | 17 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 8.7 | 630 | 1/16/32 | 20.1 | 0.02 | 156 | 7 | 13 | 0 | 21 | 5 | 24 | 24 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 10.1 | 750 | 1/16/32 | 18.3 | 0.04 | 140 | 5 | 10 | 0 | 31 | 9 | 31 | 9 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 10.6 | 826 | 3/17/32 | 16.8 | 0.04 | 126 | 6 | 12 | 0 | 30 | 8 | 30 | 8 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 10.9 | 901 | 4/15/32 | 16.3 | 0.06 | 127 | 4 | 0 | 0 | 16 | 5 | 15 | 5 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 7.5 | 993 | 5/18/32 | 16.4 | 0.06 | 155 | 4 | 5 | 0 | 22 | 6 | 18 | 22 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 3.1 | 1,173 | 7/14/32 | 20.6 | 0.04 | 156 | 4 | 5 | 0 | 24 | 7 | 17 | 17 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 1.1 | 1,282 | 8/17/32 | 25.3 | 0.10 | 126 | 6 | 12 | 0 | 31 | 9 | 31 | 9 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 0.5 | 1,398 | 9/15/32 | 29.1 | 0.09 | 140 | 5 | 12 | 0 | 31 | 9 | 31 | 9 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 1.5 | 1,552 | 10/14/32 | 26.3 | 0.12 | 131 | 5 | 12 | 0 | 31 | 9 | 31 | 9 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 1.5 | 1,692 | 1/17/33 | 21.0 | 0.06 | 128 | 5 | 12 | 0 | 31 | 9 | 31 | 9 | |
| S195845 F 28 | City Creek, NE of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek road, 4,600 feet N. of Highland Ave. in NW $\frac{1}{4}$, Sec. 27, T. 1 N., R. 3 W., S. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records. | S195845 | 1,600 | 1.5 | 1,754 | 2/13/33 | 21.7 | 0.04 | 128 | 5 | 12 | 0 | 31 | 9 | 31 | 9 | |

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER. Continued

| Number | Location and description | Location number | Elevation of streambed | Discharge in second-feet | Laboratory number | Date | Specific conductance ($K \times 10^8$ at $25^\circ C$) | Per cent sodium Na x 100 $\frac{Ca+Mg}{Na}$ | Constituents (parts per million) | | | | | | | | | |
|---------------|--|-----------------|------------------------|--------------------------|-------------------|----------|--|---|----------------------------------|---------|-----------------------------------|-----------------------------|---------------------------------|------------------------------|--------------|----------------|-------------|------|
| | | | | | | | | | Boron ppm | Tr. Tr. | Bicarbonate radicle (HCO_3^-) | Chloride radicle (Cl^-) | Sulfate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| S18054-G-30 | Plunge Creek, NE. of East Highlands. Sampled at U. S. G. S. gaging station in NE $\frac{1}{4}$, See L, T, 1 $\frac{1}{2}$, R, 3 W, S, B, & M., at mouth of canyon at crossing of North Fork ditch siphon. Discharge from U. S. G. S. unpublished records. | 825 | 1,650 | 15 | (e) | 3/16/32 | 13.1 | 0.02 | 31 | 64 | 5 | 5 | 0 | 15 | 5 | 12 | | |
| S18099-G-31 | Santa Ana River, NE. of Redlands. Sampled at head of North Fork Ditch and Redlands Canal, on S side of Santa Ana Canyon Road at mouth of canyon; Discharge given is combined discharge of Southern California Edison Co., Ltd., power plant tailrace and Green spot pipe line, from W. S. P. Nos. 706, 721, and U. S. G. S. unpublished records. | 900 | 1,900 | 52 | (e) | 6/9/30 | 22.0 | Tr. | ..... | 98 | 3 | 106 | Tr. | 24 | 16 | | | |
| | | 34 | 710 | 43 | (e) | 7/10/30 | 22.7 | Tr. | ..... | 122 | 4 | 122 | Tr. | 15 | 16 | | | |
| | | 39 | 812 | 31 | 214 | 8/12/31 | 23.9 | 0.02 | 26 | 128 | 0 | 10 | Tr. | 24 | 11 | | | |
| | | 34 | 286 | 9,10 | 281 | 10/12/31 | 23.3 | 0.02 | 19 | 125 | 0 | 7 | Tr. | 23 | 10 | | | |
| | | 32 | 431 | 10/9/31 | 23.3 | 0.02 | 23 | 128 | 0 | 7 | 0 | 7 | 25 | 10 | | | | |
| | | 20 | 490 | 11/9/31 | 24.2 | 0.12 | 29 | 128 | 0 | 18 | 0 | 18 | 26 | 10 | | | | |
| | | 30 | 585 | 12/14/31 | 24.8 | 0.06 | 29 | 125 | 0 | 18 | Tr. | 26 | 7 | 14 | | | | |
| | | 37 | 629 | 1/16/32 | 22.0 | 0.04 | 29 | 125 | 0 | 19 | 2 | 2 | 7 | 18 | | | | |
| | | 185 | 754 | 2/15/32 | 16.6 | 0.04 | 88 | 122 | 0 | 10 | Tr. | 24 | 7 | 16 | | | | |
| | | 133 | 822 | 3/16/32 | 18.0 | 0.01 | 101 | 122 | 0 | 4 | 0 | 0 | 19 | 5 | 9 | | | |
| | | 141 | 902 | 4/15/32 | 15.8 | 0.07 | 23 | 82 | 0 | 2 | 6 | 0 | 0 | 19 | 5 | 9 | | |
| | | 136 | 994 | 5/17/32 | 13.9 | 0.14 | 73 | 73 | 0 | 0 | 0 | 0 | 0 | 19 | 5 | 9 | | |
| | | 60 | 1174 | 7/14/32 | 15.1 | 0.03 | 76 | 72 | 0 | 0 | 0 | 0 | 0 | 19 | 5 | 9 | | |
| | | 63 | 1288 | 8/15/32 | 16.9 | 0.05 | 88 | 72 | 0 | 2 | 3 | 0 | 0 | 19 | 5 | 9 | | |
| | | 55 | 1399 | 9/15/32 | 18.0 | 0.02 | 24 | 92 | 0 | 2 | 3 | 0 | 0 | 19 | 5 | 9 | | |
| | | 47 | 1482 | 10/14/32 | 18.5 | 0.16 | 101 | 101 | 0 | 0 | 0 | 0 | 0 | 19 | 5 | 9 | | |
| | | 43 | 1537 | 11/14/32 | 19.3 | 0.12 | 24 | 95 | 0 | 4 | 11 | 1 | 1 | 21 | 5 | 11 | | |
| | | 34 | 1610 | 12/14/32 | 18.9 | 0.04 | 24 | 107 | 0 | 4 | 11 | 1 | 1 | 21 | 5 | 11 | | |
| | | 1693 | 1/16/33 | 21.4 | 0.08 | 21 | 1 | 0 | 0 | 107 | 4 | 4 | 11 | 1 | 21 | 5 | 11 | |
| | | 1553 | 2/14/33 | 21.1 | 0.06 | 107 | 4 | 0 | 0 | 107 | 4 | 4 | 11 | 1 | 21 | 5 | 11 | |
| | | 1420 | 9/22/32 | 37.9 | 0.06 | 38 | 140 | 5 | 38 | 140 | 5 | 57 | 1 | 33 | 8 | 34 | | |
| | | 1,875 | ----- | ----- | ----- | ----- | 14 | 177 | ----- | ----- | 35 | 1 | 50 | 11 | 11 | 13 | | |
| S18099-A-G-31 | Redlands Tunnel, NE. of Redlands. Sampled from tunnel ditch where road running S. along Redlands Canal crosses ditch 300 feet S. of Santa Ana Canyon Road. Use: Irrigation. | 6 | 1 | 100 | 7/ 3/31 | 34.9 | ----- | 14 | 177 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | | |
| S18260-G-32 | Mill Creek, NE. of Redlands. Sampled from tailrace of Southern California Edison Co., Ltd., power plant 2, 200 feet SE. of Mill Creek Road, 0.6 mile NE. of Ed Ave. Discharge from Southern California Edison Co., Ltd., at time of sampling. | 3,000 | 3,000 | 37 | (e) | 6/18/30 | 28.0 | Tr. | ..... | 111 | 2 | 118 | Tr. | 32 | 35 | 3 | 12 | |
| | | 3470 | 101 | 7/ 3/31 | 22.2 | 0.07 | 135 | 146 | 0 | 2 | 28 | 24 | 0 | 38 | 11 | 9 | 12 | |
| | | 16.7 | 222 | 8/12/31 | 28.8 | 0.10 | 149 | 149 | 0 | 2 | 21 | 21 | 0 | 40 | 12 | 12 | 12 | |
| | | 12.4 | 238 | 9/10/31 | 28.8 | 0.02 | 149 | 149 | 0 | 2 | 22 | 22 | 1 | 30 | 11 | 11 | 11 | |
| | | 13.5 | 430 | 10/13/31 | 28.8 | 0.02 | 149 | 149 | 0 | 2 | 20 | 20 | 1 | 34 | 9 | 7 | 7 | |
| | | 15.1 | 489 | 11/ 9/31 | 29.4 | 0.02 | 149 | 149 | 0 | 2 | 20 | 20 | 1 | 34 | 9 | 7 | 7 | |
| | | 15.2 | 584 | 12/14/31 | 25.5 | 0.02 | 11 | 125 | 0 | 2 | 137 | 4 | 4 | 137 | 4 | 4 | 4 | |
| | | 14.4 | 627 | 1/15/32 | 27.2 | 0.02 | 11 | 125 | 0 | 2 | 137 | 4 | 4 | 137 | 4 | 4 | 4 | |
| | | 41 | 749 | 2/18/32 | 27.8 | 0.01 | 137 | 137 | 0 | 2 | 137 | 4 | 4 | 137 | 4 | 4 | 4 | |
| | | 50 | 823 | 3/15/32 | 27.5 | 0.02 | 140 | 140 | 0 | 2 | 140 | 2 | 2 | 140 | 2 | 2 | 2 | |
| | | 80 | 903 | 4/15/32 | 20.6 | 0.06 | 12 | 101 | 0 | 2 | 13 | 2 | 2 | 13 | 2 | 2 | 6 | |
| | | 113 | 990 | 5/18/32 | 17.3 | 0.08 | 82 | 0 | 0 | 0 | 125 | 0 | 2 | 125 | 0 | 2 | 6 | |
| | | 71 | 1088 | 6/21/32 | 19.1 | 0.02 | 95 | 140 | 0 | 2 | 119 | 2 | 2 | 119 | 2 | 2 | 6 | |
| | | 43 | 1170 | 7/15/32 | 26.6 | 0.01 | 12 | 119 | 0 | 0 | 14 | 1 | 1 | 37 | 9 | 8 | 8 | |
| | | 30 | 1287 | 8/15/32 | 23.6 | 0.01 | 119 | 119 | 0 | 0 | 140 | 0 | 0 | 140 | 0 | 0 | 8 | |
| | | 24 | 1397 | 9/15/32 | 25.9 | 0.02 | 125 | 125 | 0 | 0 | 137 | 2 | 2 | 137 | 2 | 2 | 8 | |
| | | 23.5 | 1381 | 10/14/32 | 25.3 | 0.10 | 125 | 125 | 0 | 0 | 137 | 2 | 2 | 137 | 2 | 2 | 8 | |
| | | 23.3 | 1500 | 11/14/32 | 24.1 | 0.04 | 128 | 128 | 0 | 0 | 137 | 2 | 2 | 137 | 2 | 2 | 8 | |
| | | 15.8 | 1609 | 12/14/32 | 25.2 | 0.06 | 12 | 119 | 0 | 0 | 119 | 2 | 2 | 119 | 2 | 2 | 7 | |
| | | 1752 | 1752 | 2/13/33 | 26.6 | 0.02 | 131 | 131 | 0 | 2 | 125 | 0 | 2 | 125 | 0 | 2 | 7 | |
| S1811s-1-30 | Sun Triactor Creek, 2 $\frac{1}{2}$ miles S. of Redlands, Santa Land, at U. S. G. S. water stage recorder in NE $\frac{1}{4}$. See 10, T. 2 S. R. 3 W. S. B. & M. Discharge from U. S. G. S. unpublished record. | 1,440 | 1,440 | 0.06 | 623 | 1/13/32 | 68.3 | 0.02 | 34 | 333 | 34 | 330 | 33 | 32 | 0 | 40 | 10 | 37 |
| | | 3.1 | 748 | 2/15/32 | 82.3 | 0.10 | 34 | 330 | 33 | 327 | 33 | 327 | 33 | 32 | 8 | 58 | 16 | 63 |
| | | 0.8 | 831 | 3/18/32 | 77.8 | 0.08 | 34 | 330 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 49 | 10 | 26 |
| | | 0.6 | 1688 | 1/16/33 | 65.1 | 0.05 | 37 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 42 | 10 | 24 |
| | | 1,750 | 2/13/33 | 77.5 | 0.12 | 37 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 42 | 10 | 24 | |
| | | (1) | 5/15/19 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | (1) | June, 1919 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | (1) | Aug., 1919 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | (1) | Oct., 1919 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | (1) | Dec., 1919 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | (1) | 12/ 2/19 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | (1) | Jan., 1920 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | (1) | 1920 | ----- | ----- | ----- | 34 | 320 | 33 | 327 | 33 | 327 | 33 | 32 | 2 | 61 | 20 | 62 |
| | | 1711 | 1711 | 2/ 1/33 | 34.6 | 0.06 | 34.6 | 34.6 | 0.06 | 34.6 | 34.6 | 0.06 | 34.6 | 34.6 | 0.06 | 34.6 | 34.6 | 0.06 |

Sun Triactor Creek, 2 $\frac{1}{2}$ miles S. of Redlands, Santa Land, at U. S. G. S. water stage recorder in NE $\frac{1}{4}$. See 10, T. 2 S. R. 3 W. S. B. & M. Discharge from U. S. G. S. unpublished record.

Santa Ana River, E. of Colton, Sampled at E St. (Colton Ave.) bridge.

S18003-H-28

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER—Continued

| Number | Location and description | Elevation of ground number | Discharge in second-feet | Laboratory number | Date | Specific electrical conductivity ($K \times 10^{-4}$ at 25°C.) | Constituents (parts per million) | | | | | |
|-------------|--|----------------------------|--------------------------|-------------------|------------|---|---|---|---|---------------------------------|--------------------------------|---------------------------|
| | | | | | | | Per cent sodium $\text{Na} \times 100$ | Boron $(\text{B} + \text{Mg})/\text{Na}$ | Brarnonate $(\text{Ca} + \text{Mg})/\text{Na}$ | Sulfate $(\text{SO}_4)^{2-}$ | Nitrate $(\text{NO}_3)^{-}$ | Chloride (Cl) |
| SI7993 H 27 | Warm Creek, E. of Colton. Sampled at U. S. G. S. gauge station at Colton Ave., bridge, 0.4 mile E. of Mt. Vernon Ave. Meeks and Daley canal diverts 0.5 mile above station and San Bernardino Sewage Disposal Plant discharges into creek above station. Samples prior to Jan. 13, 1932 were taken at Riverside Water Co. canal intake, 2,000 feet S. except U. S. G. S. sample. Discharge given is combined discharge of Warm Creek and Meeks and Daley canal from W. S. P. Nos. 706, 721, and U. S. G. S. unpublished records. | 9.50 | ..... | (1) | 5/ 5/19 | 46.2 | 0.20 | 23 | 201 | 14 | 46 | 0 |
| SI8001 G 28 | Warm Creek, S. of San Bernardino. Sampled at 1st St. crossing. Use: Irrigation. | 1,000 | ..... | (1) | 2/28/29 | 46.2 | 0.23 | 23 | 195 | 12 | 43 | 0 |
| SI8001 | ..... | ..... | ..... | (1) | 3/6/29 | 44.2 | 0.16 | 22 | 198 | 14 | 44 | 0 |
| | | | | (1) | 3/13/29 | 43.7 | | | 204 | 16 | | |
| | | | | (1) | 3/13/29 | 43.7 | | | 16 | | | |
| | | | | (1) | 1/3/30 | 43.7 | | | | | | |
| | | | | (1) | 1/3/30 | 43.7 | | | | | | |
| | | | | (1) | Jan. 1930 | | | | | | | |
| SI7993 H 27 | ..... | ..... | ..... | (1) | June 1939 | 40 | 150 | 18 | 36 | 0 | 37 | 8 |
| | | | | (1) | July 1939 | 35 | 162 | 15 | 40 | 2 | 40 | 8 |
| | | | | (1) | Aug. 1939 | 27 | 218 | 17 | 41 | 2 | 41 | 12 |
| | | | | (1) | Sept. 1939 | 27 | 184 | 13 | 44 | 3 | 50 | 9 |
| | | | | (1) | Oct. 1939 | 23 | 204 | 17 | 52 | 2 | 56 | 12 |
| | | | | (1) | Dec. 1939 | 22 | 201 | 12 | 46 | 2 | 56 | 12 |
| | | | | (1) | Jan. 1940 | 42 | 195 | 17 | 42 | 2 | 38 | 10 |
| | | | | (1) | Feb. 1940 | 45 | 192 | 14 | 41 | 4 | 30 | 10 |
| | | | | (1) | Mar. 1940 | 47 | 195 | 25 | - | - | 58 | 12 |
| | | | | (1) | Apr. 1940 | 47 | 22 | 195 | 30 | 43 | - | 12 |
| | | | | (1) | May 1940 | 47 | 186 | 26 | 25 | 22 | 52 | 12 |
| | | | | (1) | June 1940 | 57.3 | 33 | 183 | 34 | 21 | 50 | 15 |
| | | | | (1) | July 1940 | 57.3 | 14 | 177 | 31 | 22 | 53 | 12 |
| | | | | (1) | Aug. 1940 | 48.2 | 15 | 180 | 21 | - | - | - |
| | | | | (1) | Sept. 1940 | 48.2 | 15 | 189 | 16 | 67 | 6 | 14 |
| | | | | (1) | Oct. 1940 | 50.6 | 21 | 180 | 23 | - | - | - |
| | | | | (1) | Nov. 1940 | 50.6 | 21 | 189 | 16 | - | - | - |
| | | | | (1) | Dec. 1940 | 50.2 | 21 | 180 | 20 | - | - | - |
| | | | | (1) | Jan. 1941 | 50.2 | 21 | 189 | 20 | - | - | - |
| | | | | (1) | Feb. 1941 | 57.2 | 21 | 186 | 20 | 41 | 10 | 3 |
| | | | | (1) | Mar. 1941 | 57.2 | 14 | 192 | 21 | - | - | - |
| | | | | (1) | April 1941 | 57.2 | 14 | 180 | 23 | - | - | - |
| | | | | (1) | May 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1941 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1942 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1943 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1944 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1945 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1946 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1947 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Dec. 1948 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Jan. 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Feb. 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Mar. 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | April 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | May 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | June 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | July 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Aug. 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Sept. 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Oct. 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | | (1) | Nov. 1949 | 57.2 | 14 | 177 | 28 | - | - | - |
| | | | </ | | | | | | | | | |

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER—Continued

| Number | Location and description | Location number | Elevation of ground | Discharge in second-feet | Laboratory number | Date | Specific electrical conductance ($K \times 10^8$ at $25^\circ C$) | Per cent sodium | Boron ppm | Per cent sodium $Na \times 100$ $Ca + Mg$ + Na | Bicarbonate (HCO_3^-) | Constituents (parts per million) | | | | |
|-------------|---|-----------------|---------------------|--------------------------|-------------------|----------|---|-----------------|-----------|---|---------------------------|-------------------------------------|--|---|----------------|-------------|
| | | | | | | | | | | | | Chloride radicle (Cl ⁻) | Sulfate radicle (SO ₄ ²⁻) | Nitrate radicle (NO ₃ ⁻) | Magnesium (Mg) | Sodium (Na) |
| S17022-J-26 | Riverside Water Co. canal, Riverside, ¹ Sampled at 14th St. crossing. Use: Irrigation. Samples taken prior to 4/5/32 were from 8th St. crossing. | S17022 | 880 | ----- | (e) | 11/19/28 | 44.6 | 0.19 | 0.93 | 52 | 198 | 14 | 40 | 43 | 54 | |
| | | | | | (e) | 6/28/30 | 51.2 | 0.12 | 0.93 | 32 | 214 | 25 | 35 | 54 | 12 | |
| | | | | | (e) | 8/12/30 | 51.2 | 0.12 | 0.93 | 28 | 217 | 25 | 35 | 54 | 11 | |
| | | | | | (e) | 9/3/30 | 51.1 | 0.10 | 0.93 | 18 | 226 | 17 | 35 | 54 | 32 | |
| | | | | | (e) | 10/1/30 | 47.9 | 0.07 | 0.93 | 29 | 207 | 21 | 63 | 55 | 20 | |
| | | | | | (e) | 11/1/30 | 44.3 | 0.37 | 0.93 | 26 | 201 | 37 | 51 | 55 | 25 | |
| | | | | | (e) | 12/1/30 | 48.9 | 0.11 | 0.93 | 21 | 195 | 16 | 37 | 51 | 23 | |
| | | | | | (e) | 1/7/31 | 49.0 | 0.09 | 0.93 | 18 | 189 | 14 | 47 | 54 | 11 | |
| | | | | | (e) | 1/30/31 | 46.9 | 0.14 | 0.93 | 19 | 195 | 16 | 51 | 55 | 12 | |
| | | | | | (e) | 3/2/31 | 48.8 | 0.12 | 0.93 | 19 | 189 | 12 | 59 | 56 | 21 | |
| | | | | | (e) | 4/1/31 | 49.6 | 0.03 | 0.93 | 35 | 44 | 18 | 44 | 53 | 10 | |
| | | | | | (e) | 5/1/31 | 46.3 | 0.11 | 0.93 | 29 | 204 | 18 | 44 | 52 | 10 | |
| | | | | | (e) | 6/2/31 | 46.6 | 0.07 | 0.93 | 26 | 186 | 20 | 33 | 51 | 10 | |
| | | | | | (e) | 7/1/31 | 50.3 | 0.09 | 0.93 | 19 | 204 | 27 | 21 | 58 | 11 | |
| | | | | | (e) | 8/1/31 | 53.0 | 0.12 | 0.93 | 31 | 238 | 27 | 41 | 10 | 41 | |
| | | | | | (e) | 9/2/31 | 50.9 | 0.14 | 0.93 | 30 | 201 | 25 | 48 | 56 | 10 | |
| | | | | | (e) | 10/3/31 | 48.5 | 0.16 | 0.93 | 34 | 195 | 30 | 36 | 44 | 29 | |
| | | | | | (e) | 11/5/31 | 42.8 | 0.13 | 0.93 | 27 | 183 | 20 | 31 | 48 | 43 | |
| | | | | | (e) | 12/2/31 | 49.3 | 0.14 | 0.93 | 28 | 196 | 25 | 49 | 14 | 34 | |
| | | | | | (e) | 1/30/32 | 49.7 | 0.12 | 0.93 | 25 | 186 | 23 | 55 | 16 | 21 | |
| | | | | | (e) | 4/5/32 | 45.0 | 0.18 | 0.93 | 22 | 198 | 14 | 57 | 12 | 25 | |
| | | | | | (e) | 4/30/32 | 51.1 | 0.28 | 0.93 | 17 | 207 | 21 | 31 | 19 | 20 | |
| | | | | | (e) | 6/1/32 | 48.3 | 0.16 | 0.93 | 24 | 204 | 16 | 50 | 16 | 27 | |
| | | | | | (e) | 7/2/32 | 55.8 | 0.16 | 0.93 | 30 | 223 | 36 | 50 | 14 | 41 | |
| | | | | | (e) | 8/2/32 | 59.0 | 0.09 | 0.93 | 23 | 229 | 39 | 45 | 18 | 32 | |
| | | | | | (e) | 9/2/32 | 58.0 | 0.10 | 0.93 | 24 | 223 | 37 | 49 | 18 | 33 | |
| | | | | | (e) | 10/7/32 | 49.6 | 0.21 | 0.93 | 28 | 201 | 27 | 40 | 13 | 33 | |
| | | | | | (e) | 11/2/32 | 48.0 | 0.14 | 0.93 | 27 | 217 | 38 | 32 | 13 | 34 | |
| | | | | | (e) | 12/1/32 | 46.6 | 0.15 | 0.93 | 26 | 195 | 22 | 44 | 13 | 29 | |
| | | | | | (f) | 3/5/19 | ----- | ----- | ----- | 34 | 204 | 17 | 37 | 3 | 36 | |
| | | | | | (f) | 4/1/19 | ----- | ----- | 0.14 | 23 | 256 | 24 | 46 | 0 | 29 | |
| | | | | | (f) | 17/12 | 2/1/33 | 55.6 | 0.14 | ----- | 189 | 21 | ----- | 0 | 16 | |
| | | | | | (f) | 17/13 | 2/1/33 | 61.7 | 0.14 | ----- | 302 | 36 | 26 | Tr. | 67 | |
| S17965-H-27 | Santa Ana River, S. of Colton. Sampled at La Cadena Ave. bridge. | S17965 | 895 | ----- | (f) | 3/5/19 | 9/19/32 | 62.7 | 0.17 | 32 | 302 | 247 | 43 | ----- | 15 | |
| S17965-H-27 | Santa Ana River. W. of Riverside. Sampled 200 feet W. of E. abutment and 100 feet N. of Rubidoux Bridge. Discharge estimated by D. W. R. at time of sampling. | S17965 | 765 | 4 | 1392 | 9/19/32 | 62.7 | 0.17 | 32 | 302 | 247 | 43 | ----- | 15 | 50 | |
| S17000-J-26 | Santa Ana River. W. of Riverside. Sampled 200 feet W. of E. abutment and 100 feet N. of Rubidoux Bridge. Discharge estimated by D. W. R. at time of sampling. | S17000 | 690 | 33 | (e) | 7/10/30 | ----- | 0.02 | ----- | ----- | 313 | ----- | ----- | ----- | ----- | |
| S16952-J-25 | Santa Ana River, NW of Riverside. Sampled at U. S. G. S. gaging station in Riverside Narrows 3,000 feet downstream from U. P. R. R. Bridge. D. W. R. Lab. No. 779 was sampled on S. side, No. 780 as a composite across stream, and No. 781 on N. side of river. W. R. Lab. No. 780 from same sample. Discharge from W. S. P. N. Nos. 706, 721 and U. S. G. S. unpublished records. | S16952 | 690 | 33 | (e) | 11/12/30 | ----- | 0.08 | ----- | ----- | 310 | ----- | b25 | 12 | 61 | |
| | | | 30 | 298 | (e) | 9/15/31 | 83.7 | 0.15 | 0.93 | 33 | 305 | 85 | 47 | 11 | 67 | |
| | | | 31 | 31 | (e) | 10/17/31 | 79.6 | 0.15 | 0.93 | 34 | 308 | 84 | 41 | 6 | 67 | |
| | | | 32 | 32 | (e) | 11/9/31 | 81.1 | 0.09 | 0.93 | 32 | 259 | 59 | 53 | 6 | 56 | |
| | | | 33 | 32 | (e) | 12/14/31 | 72.9 | 0.13 | 0.93 | 32 | 62 | 62 | 53 | 76 | 17 | |
| | | | 34 | 32 | (e) | 1/15/32 | 68.7 | 0.13 | 0.93 | 32 | 259 | 59 | 53 | 76 | 17 | |
| | | | 35 | 32 | (e) | 2/15/32 | 80.8 | 0.13 | 0.93 | 32 | 302 | 77 | 84 | 85 | 20 | |
| | | | 36 | 32 | (e) | 3/9/32 | 81.1 | 0.14 | 0.93 | 32 | 305 | 84 | 52 | 85 | 20 | |
| | | | 37 | 32 | (e) | 7/8/32 | 81.1 | 0.12 | 0.93 | 30 | 308 | 80 | 49 | 12 | 60 | |
| | | | 38 | 32 | (e) | 3/9/32 | 83.8 | 0.12 | 0.93 | 30 | 305 | 84 | 52 | 85 | 20 | |
| | | | 39 | 32 | (e) | 3/14/32 | 80.4 | 0.14 | 0.93 | 30 | 299 | 84 | 52 | 85 | 20 | |
| | | | 40 | 32 | (e) | 4/15/32 | 84.3 | 0.14 | 0.93 | 34 | 299 | 94 | 52 | 86 | 21 | |
| | | | 41 | 32 | (e) | 5/19/32 | 86.1 | 0.15 | 0.93 | 34 | 308 | 89 | 52 | 86 | 21 | |
| | | | 42 | 30 | (e) | 6/16/32 | 85.8 | 0.14 | 0.93 | 34 | 298 | 89 | 52 | 86 | 21 | |
| | | | 43 | 30 | (e) | 7/14/32 | 84.2 | 0.16 | 0.93 | 34 | 302 | 89 | 87 | 47 | 10 | |
| | | | 44 | 29 | (e) | 1/18/33 | 77.3 | 0.19 | 0.93 | 32 | 278 | 69 | 50 | 11 | 7 | |
| | | | 45 | 27 | (e) | 9/15/32 | 84.8 | 0.22 | 0.93 | 34 | 299 | 87 | 47 | 10 | 69 | |
| | | | 46 | 30 | (e) | 10/15/32 | 84.4 | 0.20 | 0.93 | 34 | 302 | 85 | 47 | 10 | 69 | |
| | | | 47 | 63 | (e) | 12/13/32 | 77.3 | 0.19 | 0.93 | 32 | 278 | 69 | 50 | 11 | 59 | |
| | | | 48 | 65 | (e) | 16/6/33 | 77.5 | 0.14 | 0.93 | 34 | 278 | 73 | 50 | 11 | 59 | |
| | | | 49 | 37 | (e) | 2/23/33 | 81.5 | 0.14 | 0.93 | 34 | 296 | 80 | 87 | 11 | 59 | |
| | | | 50 | 37 | (e) | 18/01 | 2/23/33 | 92.3 | 0.16 | ----- | ----- | ----- | 87 | 87 | 11 | 59 |
| S16923-J-24 | Santa Ana River, N. of Arlington. Sampled at end of Tyler St., 4,000 feet downstream from Peiley Bridge. | S16923 | 650 | ----- | (f) | 10/13/31 | 92.3 | 0.16 | 0.93 | ----- | ----- | ----- | ----- | ----- | 11 | |
| S16854-J-23 | Santa Ana River, N. of Norco. Sampled at U. S. G. S. gaging station, 0.5 mile above Hamner Ave. bridge. Discharge from U. S. G. S. unpublished records. | S16854 | 575 | 37 | 1484 | 10/13/32 | 80.0 | 0.16 | 0.93 | ----- | ----- | 254 | 87 | 73 | 14 | |
| S16845-J-23 | Santa Ana River, N. of Norco. Sampled at Hamner Ave. bridge. Bailey No. 275ff. Lab. No. 1004 was sampled from the S. side. No. 1005 is a composite across the stream, and No. 1006 was sampled from the N. side of the river. Discharge given is from the U. S. G. S. Hamner Ave. bridge, gaging station as published in W. S. P. 721 and U. S. G. S. unpublished records. | S16845 | 565 | 31 | (e) | 9/13/31 | 83 | ----- | ----- | 30 | 256 | 83 | 65 | 71 | 33 | |
| | | | 32 | 73 | (e) | 10/13/31 | 81.4 | ----- | ----- | 26 | 217 | 64 | 50 | 70 | 15 | |
| | | | 33 | 36 | (e) | 11/28/31 | 69 | ----- | ----- | 27 | 241 | 64 | 50 | 70 | 15 | |
| | | | 34 | 36 | (e) | 10/04 | 51.9/32 | 77.0 | 0.18 | ----- | ----- | 235 | 90 | 73 | 14 | |
| | | | 35 | 36 | (e) | 10/06 | 51.9/32 | 76.1 | 0.16 | ----- | ----- | 238 | 90 | 73 | 14 | |
| | | | 36 | 25 | 1377 | 9/15/32 | 71.9 | 0.18 | 0.93 | 41 | 214 | 85 | 43 | 67 | 67 | |

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER. Continued

| Number | Location and description | Location number | Elevation of stream | Discharge in second-foot | Laboratory number | Date | Specific electrical conductivity ($\text{K} \times 10$ at 25°C) | Percent sodium | Constituents (parts per million) | | | | | | | | |
|--------------|--|-----------------|---------------------|--------------------------|-------------------|----------|--|------------------------|----------------------------------|----------------|---------------|---------------|---------------|---------|-----------|--------|-----|
| | | | | | | | | | Boron | Potassium | Barium | Chloride | Sulfate | Nitrate | Magnesium | Sodium | |
| | | | | | | | | $\text{Na} \times 100$ | $\text{Ca} + \text{Mg}$ | HCO_3 | Cl^- | SO_4 | NO_3 | (Mg) | (Na) | | |
| S16835-K-22 | Santa Ana River, N. of Norco. Sampled 0.5 mile downstream from Hammer Ave. bridge. Lab. No. 782 is a composite sample across the stream. No. 783 was from the N. side and No. 784 from the S. side of the river. Discharge given is from measurement at time and point of sampling by U. S. G. S. unpublished miscellaneous record. | S16835 | 555 | 65 | 782 | 3/9/32 | 81.0 | 0.11 | 3/10/32 | 72.0 | 0.07 | 32 | 88 | 5 | 76 | 17 | |
| S16807-K-22 | Santa Ana River, NW. of Corona. Sampled at U. S. G. S. gaging station, 600 feet upstream from Autunndale (Old bridge) (River Road). Bailey No. 3710C. Lab. Nos. 7007, 1,008 and 1,380 were sampled from S. side of river; Lab. Nos. 786, 1008 and 1378, and U. S. G. S. analysis on 7/10/30 were sampled from N. side of river. Discharge given is from W. S. P. Nos. 706, 721, and U. S. G. S. unpublished records and miscellaneous records. | S16807 | 520 | 40 | (e) | 7/10/30 | 72 | 0.07 | 9/13/31 | 71 | 0.07 | 31 | 238 | 50 | 68 | 51 | |
| S16798-K-22 | Santa Ana River, NW. of Corona. Sampled 1.5 miles downstream from Autunndale (Old bridge) (River Road), at O. C. F. C. D. gaging station. Bailey No. 3715J. | S16798 | 490 | 56 | (e) | 10/13/31 | 71.6 | 31 | 10/10/31 | 71.5 | 0.14 | 31 | 238 | 66 | 66 | 15 | |
| S16789-K-21 | Lillbridge Weir, NW. of Corona. Sampled at O. C. F. C. D. gaging station 129 at weir in Lillbridge ditch 2,200 feet NE. of Yorba St., extending from point on Yorba St. 3,300 feet NW. of A. T. & S. F. Ry. Bailey No. 3716B. The Lillbridge pump delivers water from Santa Ana River above A. T. & S. F. Ry. bridge and below Autunndale bridge. | S16789 | 500 | ..... | (e) | 9/13/31 | 139 | ..... | 9/13/31 | 60.3 | 0.12 | 28 | 232 | 60 | 69 | 48 | |
| S16779B-K-21 | Santa Ana River, NW. of Corona. Sampled 300 feet upstream from intersection of Yorba St. extended. Bailey No. 3716H. Sample on 9/13/31 was taken from E. side of river. Sample on 11/28/31 is a composite sample across stream. | S16779B | 480 | ..... | (e) | 9/13/31 | 116 | ..... | 10/13/31 | 69.3 | 0.08 | 30 | 284 | 43 | 78 | 21 | |
| S16779-K-21 | Santa Ana River, N. of Prado. Sampled at U. S. G. S. recorder stilling well No. E-4 on S. edge of stream, 500 feet downstream from intersection of Yorba St. extended. | S16779 | 477 | ..... | (e) | 9/15/32 | 71.0 | 0.13 | 10/13/31 | 71.6 | 0.14 | 31 | 238 | 67 | 67 | 15 | |
| S16156-M-27 | Cajalco Creek, S. of Riverside. Sampled from creek 900 feet S. of center of Sec. 7, T. 4 S., R. 4 W., S. B. & M. In Cajalco Canyon. | S16156 | 1,543 | ..... | (e) | 4/3/33 | 356 | 0.16 | 50 | 314 | 0.02 | 35 | 329 | 34 | 34 | 49 | |
| S14904-O-24 | Cold Water Creek, SE. of Corona. Sampled at Temescal Water Co. diversion channel at road culvert at Glen Ivy Inn. Tributary to Temescal Creek. | S14904 | 1,300 | ..... | ..... | 7/19 | 2/15/32 | 24.2 | 0.06 | 19 | 107 | 4 | 24 | 0 | 34 | 12 | |
| S15962-L-23 | Temescal Creek, E. of Corona. Sampled at S. side of 6th St. bridge. Lab. No. 729 taken from stream on E. side of channel, which was mostly Coronation storm drain. Discharge estimated at time of sampling by D. W. R. | S15962 | 620 | 0.02 0.05 | 720 729 | 2/15/32 | 45.4 97.3 | 0.02 0.06 | 2/15/32 | 115 97.3 | 0.02 0.06 | 116 228 | 30 | 390 | Tr. | 198 | |
| S16779A-K-21 | Santa Ana River, NW. of Corona. Sampled from left or E. bank 300 feet below Temescal Creek active channel, 1,600 feet SW. of Yorba St. from point 3,600 feet NW. of A. T. & S. F. Ry. Bailey No. 3716I. | S16779A | 475 | ..... | (e) | 9/13/31 | 115 | ..... | 10/13/31 | 87.6 | 0.02 | 36 | 302 | 144 | 85 | 25 | |
| S15860-L-21 | Santa Ana River, NW. of Corona. Sampled from N. side of Lincoln bridge (Prado Road crossing) over river 1,000 feet NW. of Santa Ana Canyon State Highway. Bailey No. 3720D. | S15860 | 460 | ..... | (e) | 9/13/31 | 88 | ..... | 11/28/31 | 70 | ..... | 27 | 214 | 66 | 87 | 71 | |
| S1952-J-19 | Chino Creek Tributary, SW. of Chino. Sampled beside Carbon Canyon Road, 1.7 miles SW. of Pipe Line Road. | S1952 | 700 | | | 3/10/32 | 217 | 0.24 | 43 | 552 | 0.24 | 552 | 220 | 485 | 0 | 129 | 100 |
| | | | | | | | | | | | | | | | | 255 | |

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER - Continued

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER. Continued

| Number | Location and description | Elevation of ground surface | Discharge in second-feet | Laboratory number | Specific electrical conductivity ($K \times 10^4$) | Date | Per cent sodium | Constituent (part per million) | | | | | | | |
|-------------|---|-----------------------------|--------------------------|-------------------|--|---------|-----------------|--------------------------------|--|-----------------------------------|----------------------------------|------------------------------|----------------|---------------------------------|----|
| | | | | | | | | Paren ppm | $Na \times 100$ $Ca + Mg$ $+ Na$ | Bicarbonate radicle (HCO_3^-) | Sulphate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | Magnesium (Mg) | Sodium (Na) | |
| S15812-L-20 | Anaheim Water Co., canal intake in Lower Santa Ana Canyon. Sampled at intake from the N. side of Santa Ana River, 11 miles downstream from Riverside-Orange County line, O.C.F. C. D. gaging station 124. Occasional measurements only. Use: Irrigation. | 395 | ..... | (1) | Oct. 1918 | ..... | 39 | a243 | 87 | 72 | 6 | 62 | 19 | e60 e70 e88 e80 e73 | |
| | | | | (2) | Oct. 1918 | ..... | 38 | 298 | 94 | 74 | 3 | 70 | 19 | | |
| | | | | (3) | 3.13.15 | ..... | 13 | 180 | 64 | 70 | 5 | 58 | 12 | | |
| | | | | (4) | 7/14/19 | ..... | 42 | 226 | 89 | 78 | 18 | 63 | 18 | | |
| | | | | (5) | Oct. 1910 | ..... | 41 | 222 | 87 | 78 | 16 | 62 | 17 | | |
| | | | | (6) | 3/8/20 | ..... | ..... | ..... | 69 | ..... | ..... | ..... | ..... |  |  |
| | | | | (7) | 4/15/29 | ..... | ..... | ..... | 71 | ..... | ..... | ..... | ..... |  |  |
| | | | | (8) | 6/17/29 | ..... | ..... | ..... | 92 | ..... | ..... | ..... | ..... |  |  |
| | | | | (9) | 8/21/29 | ..... | ..... | ..... | 95 | ..... | ..... | ..... | ..... |  |  |
| | | | | (10) | 10/29/29 | ..... | ..... | ..... | 97 | ..... | ..... | ..... | ..... |  |  |
| | | | | (11) | 12/19/29 | ..... | ..... | ..... | 90 | ..... | ..... | ..... | ..... |  |  |
| | | | | (12) | 1/13/30 | ..... | ..... | ..... | 75 | ..... | ..... | ..... | ..... |  |  |
| | | | | (13) | 2/14/30 | ..... | ..... | ..... | 74 | ..... | ..... | ..... | ..... |  |  |
| | | | | (14) | 3/5/30 | ..... | ..... | ..... | 70 | ..... | ..... | ..... | ..... |  |  |
| | | | | (15) | 4/15/30 | ..... | ..... | ..... | 80 | ..... | ..... | ..... | ..... |  |  |
| | | | | (16) | 6/6/31 | ..... | ..... | ..... | 257 | 96 | 72 | 2 | 73 | 21 | |
| | | | | (17) | 29 | ..... | ..... | ..... | 98 | ..... | ..... | ..... | ..... | 77 | |
| S15762-L-19 | Santa Ana Valley Irrigation Co., canal intake in lower Santa Ana Canyon. Sampled at intake from the S. side of Santa Ana River, 4.2 miles downstream from Riverside-Orange County Line, O.C.F. C. D. gaging station 123. Occasional measurements only. Use: Irrigation. | 345 | ..... | 28 | 6/6/31 | 83.4 | ..... | 38 | 256 | 96 | 75 | 2 | 73 | 21 | |
| | | | | (18) | 90 | 6/19/31 | 94 | | 39 | 238 | 101 | 72 | 0 | 77 | 24 |
| | | | | (19) | 135 | 7/15/31 | 84 | | 39 | 238 | 106 | 6 | 71 | 22 | 89 |
| | | | | (20) | 226 | 8/13/31 | 80.4 | | 38 | 2129 | 101 | 69 | 4 | 73 | 23 |
| | | | | (21) | 300 | 9/15/31 | 86.8 | 0.12 | 36 | a285 | 94 | 73 | 4 | 74 | 23 |
| | | | | | | | | | | | | | | 73 | |

^a Includes small equivalent quantity of Carbonate (CO_3^{2-}).^b Sulphate (SO_4^{2-}) determined by turbidity method.^c Alkaline based estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^d Analysis by United States Department of Agriculture, laboratory 1, Lodi, Calif., Riverside, California.^e Analysis by United States Geological Survey.^f Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.^g Analysis by Edward S. Babcock and Sons, Riverside, California.^h Analysis by Edward S. Babcock and Sons, Riverside, California.ⁱ Analysis by V. G. V. Corporation Laboratory, Anaheim, California.

TABLE 23. SEWAGE EFFLUENT - SOUTH COASTAL BASIN

| Number | Location and description | Average discharge in second foot computed from total yearly flow | Location number | Laboratory number | Date | Time of day | Specific electrical conductivity ($K \times 10^4$ at $25^\circ C$) | Boron ppm | Boron ppm | Constituent (parts per million) | | | | | |
|------------|---|--|-----------------|-------------------|----------|-------------|--|-----------|-----------|---------------------------------|----------|-----------------------------------|---------------------------------|------------------------------|-----|
| | | | | | | | | | | Percent sodium | Na x 100 | Bicarbonate radical (HCO_3^-) | Sulfate radical (SO_4^{2-}) | Nitrate radical (NO_3^-) | |
| R319-N-9 | Los Angeles County Sanitation District Sewage Disposal Plant, Harbor City; 0.15 mile W. of Figueron St., 0.20 mile N. of Lomita Blvd. Method of treatment: Imhoff tanks followed by treatment by the activated sludge process. Effluent chlorinated. Discharge into Necker Slough, 4,000 feet above Alameda St. crossing. Discharge obtained from owner. | 15.5 | R319 | (e) | 7/30/30 | ..... | 146 | 0.53 | 55 | 537 | 135 | 133 | 74 | 26 | |
| | | | | (e) | 9/5/30 | ..... | 149 | 0.50 | 62 | 555 | 179 | 117 | 72 | 27 | |
| | | | | (e) | 10/1/30 | ..... | 157 | 0.53 | 66 | 573 | 172 | 147 | 72 | 26 | |
| | | | | (e) | 11/1/30 | ..... | 154 | 0.55 | 67 | 570 | 137 | 120 | 73 | 24 | |
| | | | | (e) | 12/1/30 | ..... | 133 | 0.46 | 61 | 488 | 120 | 120 | 73 | 24 | |
| | | 18.8 | R319 | (e) | 1/9/31 | ..... | 152 | 0.56 | 64 | 546 | 154 | 128 | 73 | 26 | |
| | | | | (e) | 2/7/31 | ..... | 107 | 0.75 | 70 | 518 | 151 | 217 | 62 | 24 | |
| | | | | (e) | 3/3/31 | ..... | 175 | 0.61 | 69 | 543 | 178 | 240 | 68 | 30 | |
| | | | | (e) | 3/31/31 | ..... | 186 | 0.76 | 70 | 546 | 202 | 228 | 69 | 27 | |
| | | | | (e) | 203 | 1.03 | 80 | 81 | 135 | 147 | 160 | 159 | 52 | 3400 | |
| R1668-K-13 | City of Whittier Sewage Disposal Plant, SE. of Santa Fe St., 0.15 mile S. of Lechnerell Road, 0.1 mile E. of Island St. 0.15 mile W. of Meyer Road. Sampled at outlet to creek. Method of treatment: Imhoff tanks, sprinkling filters and secondary tank. Used for irrigation on sewer farm and surplus discharged into creek S. of plant. Discharge for years 1929, 1930 and 1932 were estimated by the Division of Water Resources from water sales. Discharge for 1932 was estimated by City Engineer from eight months metered flow. | 1.6 | R1668 | (e) | 1/2/30 | ..... | 91.4 | 0.23 | 35 | 362 | 97 | 65 | 74 | 1 | |
| | | | | (e) | 1/28/30 | ..... | 96.3 | 0.35 | 48 | 247 | 99 | 60 | 59 | 18 | |
| | | | | (e) | 7/6/31 | ..... | 81.8 | 0.33 | 43 | 143 | 78 | 55 | 210 | 14 | |
| | | | | (e) | 16/33 | 12/28/32 | 3.46 p.m. | ..... | ..... | 320 | 62 | ..... | 70 | 1401 | |
| | | | | (e) | 16/34 | 12/29/32 | 7.00 a.m. | 67.9 | 0.27 | ..... | 183 | 66 | ..... | ..... |  |
| | | 1.5 | R2881 | (e) | 16/35 | 12/29/32 | 1.00 p.m. | 113 | 0.30 | 49 | 275 | 146 | 59 | 35 | 220 |
| | | | | (e) | 16/36 | 12/29/32 | 3.45 p.m. | 88.9 | 0.33 | 50 | 229 | 87 | 55 | 45 | 140 |
| | | | | (e) | 16/37 | 12/30/32 | 7.30 a.m. | 72.3 | 0.29 | 37 | 223 | 39 | 53 | 45 | 140 |
| | | | | (e) | 12/10/29 | ..... | 118 | 0.24 | 51 | 375 | 135 | 72 | 61 | 31 | |
| | | | | (e) | 1/2/30 | ..... | 91.4 | 0.23 | 35 | 355 | 151 | 65 | 69 | 26 | |
| R2881-G-12 | Pasadena Sewage Disposal Plant, SE. of Alhambra 0.55 mile N. of Valley Blvd., 1,000 feet W. of Ranona Drive [New Ave]. Method of treatment: Fine screening, followed by treatment by the activated sludge process. Effluent chlorinated. Sewage effluent discharged into Rio Hondo. Discharge obtained from Pasadena Water Department. | 12.5 | R2881 | (e) | 12/10/29 | ..... | 78.4 | 0.34 | 49 | 159 | 91 | 44 | 34 | 17 | |
| | | | | (e) | 12/10/29 | ..... | 77.2 | 0.34 | 48 | 159 | 92 | 40 | 33 | 18 | |
| | | | | (e) | 1/2/30 | ..... | 77.3 | 0.35 | 54 | 214 | 82 | 40 | 39 | 13 | |
| | | | | (e) | 1/28/30 | ..... | 85.9 | 0.35 | 52 | 195 | 114 | 51 | 42 | 19 | |
| | | | | (e) | 16/00 | 12/15/32 | 7.00 a.m. | 74.9 | 0.43 | ..... | 166 | 84 | ..... | ..... |  |
| | | 13.6 | R3204 | (e) | 16/01 | 12/15/32 | 11:00 a.m. | 70.4 | 0.41 | ..... | 149 | 76 | ..... | ..... |  |
| | | | | (e) | 16/02 | 12/15/32 | 3.00 p.m. | 76.8 | 0.43 | ..... | 174 | 78 | ..... | ..... |  |
| | | | | (e) | 16/03 | 12/15/32 | 7.00 p.m. | 75.9 | 0.50 | 210 | 78 | ..... | ..... | ..... |  |
| | | | | (e) | 16/04 | 12/15/32 | 11:00 p.m. | 82.2 | 0.50 | 62 | 232 | 96 | 46 | 9 | |
| | | | | (e) | 16/05 | 12/16/32 | 3.00 a.m. | 79.3 | 0.27 | ..... | 232 | 87 | 198 | 87 | |
| R3204-H-18 | City of Pomona Sewage Treatment Plant, W. of Pomona 100 feet S. of S. T. R. N. 350 feet S. of Roselawn Ave. Method of treatment: Imhoff tanks followed by treatment by the activated sludge process. Effluent chlorinated. Used for irrigation near Walnut. Discharge obtained from City Engineer. | 1.3 | R3204 | (e) | 10/17/30 | ..... | 82.6 | 0.27 | 62 | 156 | 103 | 32 | 32 | 83 | |
| | | | | (e) | 16/19 | 12/22/32 | 7.00 a.m. | 82.2 | 0.29 | 108 | 156 | 15 | 36 | 8 | |
| | | | | (e) | 16/20 | 12/22/32 | 9.00 a.m. | 74.6 | 0.29 | 61 | 186 | 83 | 32 | 37 | |
| | | | | (e) | 16/21 | 12/22/32 | Noon | 72.9 | 0.27 | 174 | 82 | 36 | 41 | 5 | |
| | | | | (e) | 16/22 | 12/22/32 | 4.00 p.m. | 78.9 | 0.95 | 143 | 92 | 38 | 37 | 7 | |
| | | 1.5 | R3260 | (e) | 16/23 | 12/23/32 | 7.00 a.m. | 70.3 | 2.84 | 53 | 174 | 69 | 20 | 35 | |
| | | | | (e) | 16/24 | 12/23/32 | 9.00 a.m. | 76.6 | 0.28 | 134 | 103 | 32 | 39 | 10 | |
| | | | | (e) | 16/25 | 12/23/32 | Noon | 78.1 | 0.27 | 156 | 98 | 15 | 36 | 8 | |
| | | | | (e) | 16/26 | 12/23/32 | 4.00 p.m. | 76.0 | 0.29 | 149 | 91 | 32 | 37 | 9 | |
| | | | | (e) | 16/27 | 12/27/32 | 11:45 a.m. | 66.7 | 0.28 | 107 | 53 | 28 | 107 | 11 | |
| R3260-P-15 | Orange County Cities Joint Outfall Sewer System, SW. of Santa Ana, 700 feet S. of Ellis Ave., 100 feet W. of Vernon St., 50 feet W. of west end of Santa Ana River. Sampled at head of outfall to ocean, 100 feet S. of screening plant. Method of treatment: Pre-chlorination and fine screening. Effluent discharged into ocean. Discharge obtained from O. E. Stewart, Anaheim, California. Waste Water Disposal Co. discharges into sewer system at Orangechase and Euclid Avenues. For analysis see Table 24, "Industrial Waste Water in South Coastal Basin." | 7.0 | R3260 | (e) | 16/41 | 12/27/32 | 3.45 p.m. | 312 | 2.45 | 689 | 690 | 49 | 0 | 77 | 835 |
| | | | | (e) | 16/43 | 12/28/32 | 7.30 a.m. | 481 | 4.46 | 601 | 1264 | 517 | 56 | 0 | 381 |
| | | | | (e) | 16/44 | 12/28/32 | 3.35 p.m. | 395 | 3.52 | 570 | 976 | 1448 | ..... | ..... |  |
| | | | | (e) | 16/45 | 12/29/32 | 7.30 a.m. | 533 | 5.30 | 504 | 1024 | 509 | ..... | ..... |  |
| | | | | (e) | 16/46 | 12/29/32 | Noon | 530 | 2.97 | 546 | 619 | 553 | 5.62 | 55 | |
| | | 1.4 | R3260 | (e) | 16/47 | 12/29/32 | 3.40 p.m. | 284 | 2.11 | 570 | 570 | 553 | 0 | 90 | 44 |
| | | | | (e) | 16/48 | 12/30/32 | 10:00 a.m. | 570 | 5.74 | 553 | 1264 | 553 | 0 | 90 | 44 |
| | | | | (e) | 16/49 | 12/30/32 | 11:45 a.m. | 570 | 5.74 | 553 | 1264 | 553 | 0 | 90 | 44 |
| | | | | (e) | 16/50 | 12/30/32 | 11:45 a.m. | 570 | 5.74 | 553 | 1264 | 553 | 0 | 90 | 44 |
| | | | | (e) | 16/51 | 12/30/32 | 11:45 a.m. | 570 | 5.74 | 553 | 1264 | 553 | 0 | 90 | 44 |

TABLE 23. SEWAGE EFFLUENT—SOUTH COASTAL BASIN—Continued

| Number | Location and description | Average discharge in second feet per second from total yearly flow | Laboratory number | Date | Time of day | Specific electrical conductivity ($K \times 10^4$ at $25^\circ C$) | Boron ppm | Constituents (parts per million) | | | | | |
|-------------|--|--|---|--|--|--|--|---|--|--|--|---|------------------------------------|
| | | | | | | | | Per cent sodium Na + Mg + Na | Bicarbonate ($Ca + Mg + Na$) | Chloride radicle (Cl) | Sulphate radicle (SO_4) | | |
| R15921-L-22 | City of Corona Sewage Disposal Plant, N. of Corona; 900 feet NE of A.T. & S.F. Ry., 750 feet NW of Cota St., N. of Temescal Wash, W. of Lower Hill. Method of treatment: Imhoff tank, sprinkling filters and sand beds. Lab. No. 1638 was sampled from sewage before entering filter beds and lab. No. 1639 was from settled sewage. Effluent discharged into gravel beds on N. side of Temescal Creek Wash. Discharge estimated by City Engineer on the basis that the quantity of sewage equals the municipal water consumption. | 0.8 | 1638 1639 | 12/30/32 12/30/32 | Noon Noon | 102 128 | 0.80 1.31 | 21 59 | 302 543 | 67 75 | 108 54 | 13 12 | 40 89 |
| R16982-J-25 | City of Riverside Sewage Disposal Farm, W. of Riverside; 4,200 feet east along Sewer Farm Road, which is $\frac{1}{2}$ miles SW. along Riverside Drive from Mission Blvd. Method of treatment: Settling in earthen basins and land disposal. Used for irrigation on sewer farms and surplus disposed of on the land. Discharge estimated by City Engineer. | 3.6 | 1719 | 2/3/33 | 4:00 p.m. | 88.2 | 2.80 | 56 | 378 | 77 | 20 | 26 | 60 |
| R18002-H-27 | City of San Bernardino Sewage Treatment Plant, S. of San Bernardino; 925 feet W. of E St., 2,400 feet N. of Colton Ave. Sampled at effluent weir in final settling tank. Method of treatment: Pre-chlorination, Imhoff tanks, sprinkling filters and final clarifier. Effluent chlorinated. Discharged into Warm Creek and diverted by Riverside Water Co. canal. Discharge obtained from City Engineer. | 4.7 | (e) (e) (e) (e) (e) (e) (e) (e) (e) ----- 4.9 6.3 6.8 1640 1716 | 2/28/29 3/13/29 1/3/30 1/4/30 9/30/30 1/7/31 1/15/32 12/30/32 2/3/33 | 64.3 58.7 72.8 66.2 55.6 71.1 70.7 71.6 81.7 | 0.16 0.09 0.21 0.30 0.15 0.16 0.23 0.33 0.26 | 47 40 42 40 56 47 41 41 38 | 262 226 265 100 253 256 140 214 241 | 48 48 64 69 101 101 60 59 73 | 37 37 28 35 49 37 36 37 37 | 54 53 56 51 52 52 54 51 50 | 8 10 13 12 11 11 10 13 16 | 70 64 54 54 104 172 |
| R18090-G-29 | City of Redlands Sewage Disposal Plant, NW. of Redlands; 0.5 mile S. of City Creek Road (3d St.), 700 feet E. of Palm Ave. Sampled from settled sewage. Method of treatment: Imhoff tanks, followed by disposal on sand beds. Effluent discharged into sand beds on N. side of Santa Ana River Wash. Discharge obtained from City Engineer. | 1.2 | 1717 1718 | 2/1/33 2/3/33 | 2:30 p.m. 2:00 p.m. | 99.7 91.5 | 4.76 10.64 | 35 33 | 418 418 | 87 64 | 20 20 | 0 0 | 44 40 |

^a Includes small equivalent quantity of carbon dioxide (CO_2).^b Alkalinity bases estimated by difference between sum of acid radicles and sum of sodium, calcium and magnesium in milligram equivalents and calculated to equivalent quantity of sodium.

Source of information—R. F. Goudie, Sanitary Engineer, Department of Water and Power, Los Angeles, California.

Location number R384.

Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

R384-F-8, LOS ANGELES SEWAGE RECLAMATION PLANT

Owner—City of Los Angeles. Location and description—In Griffith Park, one mile W. of Riverside Drive over Los Angeles River, 350 feet S. of W. levee of Los Angeles River, S. of Burbank. Ground elevation—475, from U.S.G.S. topoz.

Source of information—R. F. Goudie, Sanitary Engineer, Department of Water and Power, Los Angeles, California.

| Constituents expressed in parts per million according to United States Public Health Association Standards | Average from May 12, 1930 to Feb. 1, 1933 | Averages for | | | Minimum day |
|--|---|---------------|---------------|-------------|-------------|
| | | Maximum month | Minimum month | Maximum day | |
| Alkalinity as $CaCO_3$ (10 analyses) | 240 | 281 | 133 | 664 | 101 |
| Chloride | 85 | 162 | 65 | 221 | 46 |
| Sulphate | 125 | 163 | 71 | 210 | 53 |
| Nitrates | 3.0 | 12.3 | 0 | 42.0 | 0 |
| Calcium (10 analyses) | 86 | .. | .. | .. | .. |
| Magnesium (10 analyses) | 30 | 55 | 11 | 40 | 5 |
| Color | 33 | 7 | 3 | 50 | 5 |
| Turbidity | 9 | 0 | 0 | 88 | 0 |
| Suspended solids | 15 | 25 | 9 | 88 | 0 |
| Dissolved Oxygen | 4.25 | 6.1 | 2.8 | 19.8 | 0.9 |
| B.O.D. (5 day) | 3.7 | 11.3 | 1.1 | 19.8 | 0 |
| Oxygen consumed | 10.0 | 16.9 | 4.3 | 25.8 | 2.1 |
| pH | 7.15 | 7.5 | 6.9 | 7.6 | 6.6 |

Method of treatment: Preliminary clarification, treatment by activated sludge process, final chlorination, one-third of water filtered and final sand beds.

Remarks: The plant has a capacity of 200,000 g.p.d. and the effluent is disposed of in spreading beds of natural sand adjacent to the river and $\frac{1}{2}$ miles above one of the city main infiltration galleries.

The above table gives the results of some 25,000 analyses, all of which are of samples composited usually during a 24-hour period, with the exception of values given for calcium and magnesium, which are an average determined from ten samples.

TABLE 24. INDUSTRIAL WASTE WATERS—SOUTH COASTAL BASIN

| Number | Location and description* | | Elevation of ground | Discharge in thousand feet | Laboratory number | Date | Specific electrical conductivity at 25°C. | Barometric pressure | Per cent solution | | Constituents (parts per million) | |
|--------------|--|--------------|---------------------|----------------------------|-------------------|----------|---|---------------------|-----------------------------|--------------------------------------|---|--|
| | Location number | Date sampled | | | | | | | Na x 100 Ca + Mg + Na | Bear. Na x 100 Ca + Mg + Na | Natural radioactive radon (NO ₂) | Sulfate radon (SO ₄) |
| W 85-M-9 | Union Oil Co. of California. Waste water outlet, N. of Wilshire; 1.02 miles N. of Carson St., 0.21 mile W. of Avalon Blvd., 100 feet N. of W. 85A M-9. Waste water from refinery. | W 835 | 10 | (4) | 3/ 5/32 | 9/13/32 | 60 | 14.8 | 9,680 | 58 | 200 | 147 |
| W 835A-M-9 | Shell Oil Co. of California. Waste water outlet, N. of Wilshire; N. of Carson St., 0.20 mile W. of Avalon Blvd., 100 feet S. of W 85-M-9. Waste water from oil refinery. | W 835A | 10 | (4) | 3/ 5/32 | 9/14/32 | 62 | 24 | 464 | 807 | 501 | 12 |
| W 869-N-10 | Shell Oil Co. of California. Waste water flame, N. of Wilming- ton. Sampled from flue discharging into Natur. Slough, 100 feet S. of 250 feet N. of Willow St., 250 feet W. of Alameda St., 50 feet W. of P. B. Ry. Waste water from oil refinery. | W 869 | 20 | (4) | 3/ 5/32 | (4) | 90 | 506 | 8,341 | 96 | 285 | 124 |
| W 879-N-10 | Associated Oil Co. Waste water outlet, N. of Wilmington. Sampled from flue discharging into Natur. Slough, 0.3 miles E. of Alameda St., 150 feet S. of Willow St. Waste water from oil refinery. | W 879 | 15 | (4) | 4/ 12/32 | (4) | 66 | 183 | 29 | 2 | ----- | 19 |
| W 912-L-10 | Ridgfield Oil Co. Waste water outlet, S.E. of Compton. Sampled from 10-inch pipe discharging into the E. side of the Los Angeles River, 60 feet S. of Artesia St. Waste water from oil refinery. | W 912 | 55 | (4) | 1/20/32 | (4) | 156 | 440 | 195 | 51 | 10 | 360 |
| W 1353-J-7 | Union California Oil Co., Robert Brumley, Revereve, Indwood; 165 feet S. of Regent Street, 435 feet W. of Trainie St. Oil well waste water. | W 1353 | 150 | (4) | 8/30/32 | 5,330 | 51.2 | 554 | 19,347 | 27 | 40 | 10 |
| W 1364-J-8 | Wilshire Amoco Oil Co., storage tank, Indwood. Sampled from bleeder on storage tank for oil well waste water, 905 feet S. of Manchester St., 1,665 feet W. of 12th Ave. | W 1364 | 160 | (4) | 8/30/32 | 5,125 | 60.0 | 637 | 18,105 | 3 | 177 | 280 |
| W 1514-J-10 | Los Angeles Chemical Co. Waste water outlet, Southgate. Sampled from outlet discharging into gully along U. P. R. R. at SW. corner of Salt Lake and Cefelia Aves. Waste water from plant. | W 1514 | 122 | (4) | 6/ 29/32 | (4) | 350 | 244 | 10 | ----- | ----- | ----- |
| W 1514A-J-10 | A. R. Maas, Chanal Co. Waste water outlet, Southgate. Sampled from outlet discharging into gully along U. P. R. R. at SW. corner of Salt Lake and Ardine Aves. Waste water from plant. | W 1514A | 117 | (4) | 6/ 29/32 | (4) | 150 | 10 | ----- | ----- | ----- | ----- |
| W 1524-J-11 | Rio Grande Oil Co. Waste water outlet, E. of Southgate. Sampled from outlet discharging into the E. side of the Los Angeles River, 600 feet S. of the S. P. R. R. Waste water from oil refinery. | W 1524 | 102 | (4) | 10/ 26/32 | (4) | 33 | 225 | 40 | 34 | 44 | 12 |
| W 1630-K-13 | George F. Getty Co. Waste water sump, SE. of Santa Fe Springs. Sampled from sump hole at intersection of Lakewood Road and A. T. & S. F. Ry. main line. Oil well waste water from Santa Fe Springs oil field. | W 1630 | 155 | (4) | 9/ 5/32 | 942 | 9.40 | 369 | 2,428 | 32 | 0 | 55 |
| W 1829-L-16 | The Petroleum Co., Delyoder, S.E. of Brea. Sampled from blower on dehydrator, 500 feet S. of Gold Ave., 1,640 feet W. of Brea Vista St. Waste water from all producing oil wells on owner's field. | W 1829 | 300 | (4) | 9/ 1/32 | 1,838 | 8.96 | 343 | 5,103 | 0 | 55 | 26 |
| W 1857-K-17 | Transoil Canfield Malvoil Oil Co., Gathering Tank, Olinda. Sampled from outlet discharging into the E. side of the Los Angeles River, 200 feet N. of E 1/2 corner, Sec 8 T. 3 S. R. 9 W. S. B. B. & M. 300 feet N. of Carbon Canyon Road. Waste water from all producing oil wells on owner's field. | W 1857 | 520 | (4) | 9/ 1/32 | 1,786 | 16.2 | 543 | 5,547 | ----- | ----- | ----- |
| W 277-L-10 | General Petroleum Corp. of California. Waste water outlet, Vernon. Sampled from five 3-inch to 8-inch drains discharging into the W. side of the Los Angeles River W. of Soto St. bridge. Waste water from plant. | W 277 | 205 | (4) | 6/ 15/32 | 12/17/32 | 93 | 1,522 | 105 | 24 | 7 | 600 |
| W 277A-L-10 | Atchison, Topeka & Santa Fe Ry. Waste water outlet, Los Angeles. Sampled from 6-inch pipe discharging into the W. side of the Los Angeles River, 100 feet N. of U. P. R. R., 350 feet N. of Washington (23d) St. Waste water. | W 277A | 220 | (4) | 6/ 15/32 | 12/17/32 | 97 | 224 | 357 | 2 | 5 | 373 |

TABLE 24. INDUSTRIAL WASTE WATERS—SOUTH COASTAL BASIN—Continued

| Number | Location and description | Location number | Elevation in feet above ground level | Discharge in second- fret | Labora- tory number | Date | Specific electro- conductiv- ity ($K \times 10^3$ at 25°C) | Boron ppm | Per cent sodium $\text{Na} \times 100$ $\frac{\text{Ca} + \text{Mg}}{\text{Ca} + \text{Na}}$ | Constituents (parts per million) | | | | |
|-------------|--|-----------------|--|------------------------------------|---------------------------|---|--|----------------------------------|--|---|---|--|---|-------|
| | | | | | | | | | | Bar- bitonate radicle (HCO_3^-) | Chlo- ride radicle (Cl^-) | Sul- phate radicle (SO_4^{2-}) | Nitrate radicle (NO_3^-) | |
| W2778B-I-10 | Must-Keenan Co. Waste water outlet, Los Angeles. Sampled from outlet discharging into the E. side of the Los Angeles River, 1 block S. of Washington (23d) St. Waste water from plant. | W2778B | 215 | ----- | (e) | 12/17/32 | ----- | 30 | 339 | 308 | 105 | ----- | 142 | 55 |
| W 2789-I-10 | Stauffer Chemical Co. Waste water outlet, Vernon. Sampled from 20-inch clay pipe discharging into the N.E. side of the Los Angeles River, 0.25 mile E. of Soo St. Waste water from plant. | W2789 | 190 | ----- | (d) | 6/15/32 12/17/32 | ----- | 59 | 356 | 58 | 438 | ----- | 107 | 19 |
| W2789A-I-10 | Stauffer Chemical Co. Waste water outlet, Vernon. Sampled from stump which discharges into the N. side of the Los Angeles River, 0.4 mile W. of Downey Road, 600 feet N. of river. Waste water from Pacific Hard Rubber Co. and West Coast Kalsomine Co. plants. | W2789A | 190 | ----- | (d) | 6/15/32 12/17/32 | ----- | 94 | 976 1,022 | 850 316 | 4,404 | ----- | 201 | 59 |
| W2789B-I-10 | Fibreboard Products Co. Waste water outlet, Vernon. Sampled from outlet discharging into the SW. side of the Los Angeles River, 600 feet E. of Soo St. Waste water from plant. | W2789B | 200 | ----- | (d) | 6/15/32 12/17/32 | ----- | 44 | 196 236 | 37 | 236 | 32 | 74 | 15 |
| W 2799-I-10 | Filtrol Co. Waste water outlet, Vernon. Sampled from stump 0.2 miles W. of Downey Road, 200 feet N. of Los Angeles River. Waste water from plant. | W2799 | 185 | ----- | (d) | 6/15/32 12/17/32 | ----- | 62 | ----- | 0 | 10,287 | 137 | 74 | 97 |
| W2952-H-13 | Pacific R. & H. Chemical Co. Waste water sump, El Monte, Honda, 600 feet S. of the P.E.Ry. Waste water from plant. | W2952 | 270 | ----- | (d) | 6/27/32 | ----- | 76 | 556 | 90 | 3,704 | 12/315 | 534 | 15 |
| W13202-Q-14 | The Texas Co., Brown lease, Huntington Beach. Waste water from oil wells being wasted in tank number 4117—I. T. Co. P.D.—1,178. 300 feet S. of Quincy St. and 300 feet E. of Delaware Ave. | W13202 | 35 | ----- | (f) | 10/19/31 10/23/31 10/23/31 (e) | 4,685 4,675 4,675 4,722 | 65.4 60.5 60.5 63.8 | 1,613 1,613 1,607 91 | 17,661 17,654 17,661 17,670 | 0 | 0 | 0 | 363 |
| W15604-M-16 | Waste Water Disposal Co. Outlet sump, E. of Fullerton. Sampled from sump, 200 feet S. of Orangethorpe Ave., 600 feet W. of Cypress Ave. Waste water is collected at outlet sump from Richfield, Oindla, Brea Canyon, and East Coyote oil fields. Sump waters are treated periodically by a small amount of caustic soda. Discharge varies from 200,000 to 400,000 gallons per day (0.43 second feet) and is disposed of in the Orange County Cities Joint Outfall Sewer System at the corner of Euclid and Orange-thorpe Avenues, June, 1921, analysis is a weighted average of all districts contributing water to the outlet sump. | W15604 | 190 | ----- | (f) | June, 1927 10/15/28 (g) (g) (g) (g) (g) | ----- ----- ----- ----- ----- ----- | 98 99 99 99 99 99 | *836 *1,084 5,105 5,672 6,310 884 5,459 881 5,511 *370 5,666 | 72 111 111 111 111 111 | 130 85 | 84 84 84 84 84 84 | 333 73 73 73 73 73 | |
| W15652-L-17 | Chainsior Canfield Midway Oil Co. Dehydrator, Atwood. Sampled from bleeder on dehydrator, 650 feet E. of Linda Vista Ave., 250 feet S. of Pine Street. Waste water from all producing oil wells of owner. | W15652 | 260 | ----- | 1294 | 9/ 1/32 | 1,333 | 29.2 | ----- | *351 | 4,127 | ----- | ----- | ----- |

^a Includes small equivalent quantity of Carbonate (CO_3^{2-}).^b Sulphate (SO_4^{2-}) determined by turbidity method.^c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^d Analysis by City of Long Beach, Engineering Laboratory.^e Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.^f Analysis by Union Oil Co. of California.^g Analysis by Waste Water Disposal Co., Fullerton, California.

TABLE 25. PACIFIC OCEAN WATER ANALYSIS

| | Laboratory number | Date | Specific electrical conductivity ($K \times 10^4$ at 25°C) | Boron ppm | Per cent sodium | Constituents (parts per million) | | | | | | |
|--|-------------------|------------|---|-----------|-----------------|----------------------------------|---|---|---|--|----------------|-------------|
| | | | | | | Na × 100 Ca + Mg + Na | Bicar. ^a bonate radicle (HCO ₃) | Chloride radicle (Cl ⁻) | Sulphate radicle (SO ₄) | Nitrate radicle (NO ₃) | Magnesium (Mg) | Sodium (Na) |
| HUNTINGTON BEACH. Sampled from Municipal Pier. | 44 | 6/13/31 | 5,002.6 | ..... | 70 | 143 | 10,614 | 2,568 | 0 | 414 | 1,259 | 10,773 |
| LONG BEACH. Sampled from Pine Ave. Pier. | (e) | 9/ 3/30 | ..... | ..... | 78 | 241 | 18,550 | 2,655 | ..... | 410 | 1,289 | b10,313 |
| EL SEGUNDO. Sampled from Standard Oil Co. Pier. | (d) | April 1928 | ..... | ..... | 78 | 132 | 10,904 | 2,755 | ..... | 433 | 1,351 | b11,047 |
| HOLLYWOOD BEACH. Sampled opposite Ocean Drive and Ormond Road intersection. | (e) | 6/26/31 | ..... | 4.52 | 78 | 135 | 18,824 | 2,657 | ..... | 471 | 1,256 | b10,618 |
| VENTURA. Sampled opposite State Highway underpass at S. P. R. R., W. of Ventura. | (e) | 1/ 1/29 | 5,040 | 1.85 | 82 | 134 | 18,852 | 2,353 | ..... | 428 | 1,027 | b10,904 |
| | (e) | 1/17/29 | 1.92 | 159 | | | | | | | | |
| | (e) | 3/11/29 | 2.83 | | | | | | | | | |
| | (e) | 3/16/29 | 2.76 | | | | | | | | | |
| | (e) | 3/28/29 | 1.31 | | | | | | | | | |
| | (e) | 4/ 2/29 | 3.00 | | | | | | | | | |
| | (e) | 4/ 2/29 | 2.00 | | | | | | | | | |
| | (e) | 5/ 7/29 | 2.23 | | | | | | | | | |
| | (e) | 5/ 7/29 | 3.36 | | | | | | | | | |
| | (e) | 6/18/29 | 3.44 | | | | | | | | | |
| | (e) | 6/4/29 | 3.43 | | | | | | | | | |
| | (e) | 6/11/29 | 4.34 | | | | | | | | | |
| | (e) | 7/2/29 | 4.34 | | | | | | | | | |
| | (e) | 7/30/29 | 4.30 | | | | | | | | | |
| | (e) | 8/27/29 | 4.04 | | | | | | | | | |
| | (e) | 6/14/30 | 3.73 | | | | | | | | | |
| | (e) | 2/19/30 | 3.80 | | | | | | | | | |
| SANTA BARBARA. Sample from Municipal Pier. | (e) | ..... | ..... | 79 | 140 | 19,065 | 2,602 | ..... | 432 | 1,253 | b10,700 | |

^a Includes small equivalent quantity of Carbonate (CO₃).^b Alkalinity based estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.^c Analysis by City of Long Beach Engineering Laboratory.^d Analysis by S. R. Mitchell, Consulting Chemist, Los Angeles.^e Analysis by United States Department of Agriculture, Rutherford Laboratory, Riverside, California.

TABLE 26. SPRINGS, LAKES, AND SUBSOIL WATERS ABOVE LOWER CANYON OF THE SANTA ANA RIVER

| Number | Location and direction. | Elevation of ground | Discharge in second-foot | Laboratory number | Date | Constituents (parts per million) | | | | | | | | | | |
|--------------------------|--|---------------------|--------------------------|-------------------|--|---|-------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------------|-------------------------------------|-----------|--------------|
| | | | | | | Specific electrical conductivity ($K \times 10^{-10}$ at 25°C) | Boron ppm | Percent sodium Na x 100 ($\frac{Na}{Mg} + Na$) | Bicarbonate radical (HCO_3^-) | Chloride radical (Cl^-) | Sulfate radical (SO_4^{2-}) | Nitrate radical (NO_3^-) | Magnesium (Mg) (M.E.) | Sodium (Na) | | |
| SPRINGS AND LAKES | | | | | | | | | | | | | | | | |
| 13852-Q-26 | Lake Elsinore. Elsinore. Sampled from NE. side of lake at Aloha Beach Club pier. Natural lake. | S13852 | 1,245 | (e) | 8/23/25 11/4/28 11/13/31 11/14/31 4/3/32 | 342 354 661 697 540 | 3.0 1.44 2.73 2.71 2.03 | 94 99 96 97 95 | 439 553 1,315 1,412 1,159 | 721 612 1,436 1,526 1,172 | 148 172 0 276 206 | 39 2 11 0 13 | (e) 1,499 b1,904 b1,233 | 1,659 b1,866 b1,499 b1,233 | | |
| 16124-M-26 | R. H. Raphael Realty Co., Mockingbird Spring, S. of Arlington; 550 feet E. and 1,770 feet S. of N ^{1/4} corner of Sec. 2, T. 4 S., R. 5 W. S. B. & M. In upper end of Mockingbird Canyon. Use: Irrigation. | S16124 | 1,410 | (e) | 8/15/16 3, 6 32 | 757 78.5 | 0.15 49 | 229 | 1,21 168 115 | 21 168 115 | 21 0 | 37 45 | 22 | 89 | | |
| 16136-M-26 | A. D. Randall, spring. S. of Riverside; 600 feet W. of SE. corner of Sec. 11, T. 4 S., R. 5 W., S. B. & M. In Cajero Canyon. Use: Domestic and irrigation. | S16136 | 1,550 | (e) | Aug, 1930 | - | - | 22 | 207 | 60 | 41 | - | 60 | 20 | 130 | |
| 16138-N-26 | Henry J. Smith, Gavilan Spring. S. of Riverside. On S. line and 600 feet E. of the SW. corner of Sec. 13, T. 4 S., R. 5 W., S. R. B. & M. In Cajalco Canyon. Use: Irrigation. | S16138 | 1,900 | (e) | 2/21/30 | - | - | 410 | 225 | - | - | - | - | - | - | |
| 16147-M-26 | Henry J. Smith, Arlington Tunnel. S. of Riverside; tunnel 2,600 feet long, 7 x 7 opening and practically in solid rock. First 150 feet from mouth is timbered. General direction S. 2,600 feet long, 7 x 7 opening and practically in solid rock. First 150 feet from mouth is timbered. General direction S. 1,000 feet, then S. E. Caved in at 1,800 feet. Mouth is 700 feet W. and 200 feet S. of the center of Sec. 13, T. 4 S., R. 5 W., S. B. & M. In Cajalco Canyon. Use: Irrigation. | S16147 | 1,600 | (e) | 12/23/19 2/21/30 4/3/33 | 114 114 | 0.18 0.18 | 39 38 29 | 366 387 336 | 135 166 160 | 38 84 84 | 80 Tr. 104 | 30 45 | 30 45 | 196 75 | |
| 16156A-M-27 | Spring. S. of Riverside. Sampled from seepage on S. bank of Cajalco Creek, 900 feet S. of the center of Sec. 7, T. 4 S., R. 4 W., S. B. & M. In Cajalco Canyon. | S16156A | 1,545 | (e) | 4/ 3/33 | 403 | 0.17 | 51 | 421 | 914 | 426 | 1 | 214 | 117 | 483 | |
| 16157-M-27 | Spring. S. of Riverside. Sampled from spring on Mosgrove and Winsor property in SW _{1/4} of NW _{1/4} , Sec. 18, T. 4 S., R. 4 W., S. B. & M. In Cajalco Canyon. | S16157 | 1,000 | (e) | 4/ 3/33 | 33.6 | 0.09 | 46 | 137 | 34 | 12 | 1 | 26 | 10 | 35 | |
| 16178-M-27 | Spring. S. of Riverside. Sampled from one of several springs on E. side of Cajiso Canyon, S. of Winsor and Mosgrove Ranch house about middle of S. line of NW _{1/4} , Sec. 17, T. 4 S., R. 4 W., S. B. & M. | S16178 | 1,900 | (e) | 4/ 3/33 | 63.5 | 0.14 | 22 | 274 | 52 | 38 | 1 | 82 | 18 | 32 | |
| 161837-K-22 | Lake Norco. SW. of Norco. Sampled at S. end of lake. No. 3712A. | S16327 | 640 | (e) | 11/24/31 | 83 | - | 62 | 149 | 135 | 51 | - | 33 | 17 | 97 | |
| 161934-J-24 | W. J. Hole, reservoir. N. of Arlington; 800 feet W. of Pedley Road on S. side of Jurupa Ave., extended. Stored water for irrigation. | S16334 | 720 | (e) | 1/19/20 | - | - | 52 | 292 | 226 | 90 | 2 | 89 | 23 | b1,55 | |
| 16983-J-25 | Water Cress Spring. Riverside. On Santa Ana River, S. bank, at N. projection of Streeter Ave. | S16983 | 720 | - | - | 899 | 4/ 7/32 | 86.6 | 0.17 | 39 | 278 | 105 | 32 | 14 | 81 | |
| 17054-J-27 | C. W. Benedict, spring. S. of Riverside. On E. side of and near bottom of Tequesquite Arroyo, 0.4 mile N. of Woodcrest Road, 200 feet NW. of Benefit Ave. Use: Domestic. | S17054 | 960 | - | - | 933 | 5/14/32 | 116 | 0.18 | 25 | 204 | 211 | 78 | 39 | 52 | |
| 17093-J-27 | J. F. Poarch, mountain spring. E. of Riverside; in NE _{1/4} of NW _{1/4} of SE _{1/4} of Sec. 28, T. 2 S., R. 4 W., S. B. & M. Use: Irrigation. Discharge estimated by U. S. D. A. at time of sampling. | S17093 | 1,700 | (e) | Feb, 1929 | - | - | 107 | 50 | - | - | - | - | - | - | |
| 17094-J-27 | Spring on bottom of canyon SE. of Riverside. 0.75 mile N. of A. T. & S. F. Ry. crossing on Ferris Highway near Box Springs, and 100 feet E. of the W _{1/4} corner, Sec. 12, T. 1 N., and 100 feet W. of R. I. tracks. Use: Domestic. | S17094 | 1,460 | - | 933 | 5/12/32 | 47.4 | 0.08 | 44 | 82 | 75 | 12 | 18 | 26 | 15 | |
| 18821-E-28 | Arrowhead Springs Hotel. Arrowhead steam caves. Arrowhead Springs. In Waterman Canyon, 600 feet E. of Arrowhead Highway, 1,100 feet N. of road to hotel, or 500 feet W. and 900 feet N. of center of Sec. 11, T. 1 N., R. 4 W., S. B. & M. Use: Steam baths. Discharge estimated by U. S. D. A. at time of sampling. | S18821 | 1,900 | 0.02 | (e) | 3/12/30 8/12/31 | 125 163.3 | 2.06 2.94 | 79 86 | 104 86 | 51 545 | 419 84 | 39 1 | 32 | 6 7 | 1,216 303 |
| 18830-E-28 | Arrowhead Springs Hotel. Palm Spring. Arrowhead Springs, 510 feet N. and 450 feet E. of the W _{1/4} corner, Sec. 12, T. 1 N., R. 4 W., S. B. & M. NE. of hotel. Spring formerly natural, now hole bored to 115 feet with no casing below 13 feet to increase supply. Discharge estimated by U. S. D. A. at time of sampling. | S18830 | 2,050 | 0.07 | (e) | 3/12/30 | 140 | 2.35 | 85 | 92 | 66 | 452 | - | 35 | 2 | v249 |

TABLE 26. SPRINGS, LAKES, AND SUBSOIL WATERS ABOVE LOWER CANYON OF THE SANTA ANA RIVER—Continued

| Number | Location and description | Location number | Eleva- tion of ground | Discharge in second- feet | Labora- tory number | Date | (Constituents (parts per million) | | | | | | | | | |
|------------------------------------|---|-----------------|--------------------------------|------------------------------------|---------------------------|------------|---|--------------|---|----------------------------------|--|------------------------------------|-----------------|-------------------|----------------|------|
| | | | | | | | Specific elec- tric conduc- tance ($K \times 10^3$ at 25°C.) | Boron ppm | Per cent sodium $Na \times 100$ $C_2H_5NO_2 + Mg$ + Na | Chlo- ride radicle (Cl) | Bicar- bonate radicle (HCO_3^-) | Nitrate radicle (NO_3^-) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | |
| SPRINGS AND LAKES—Continued | | | | | | | | | | | | | | | | |
| S16831A-E-28 | Arrowhead Springs Hotel, Perrysburg Spring, Arrowhead Springs; 420 feet N. and 680 feet W. of the E 1/4 corner, Sec. 11, T.1 N., R.4 W., S. B. B. & M. NW. of hotel. Discharge estimated by U. S. D. A. at time of sampling. | S16831A | 1,950 | 0.02 | (d) | 3/12/30 | 149 | 2.64 | 87 | 82 | 73 | 492 | 29 | 4 | b272 | |
| S16831B-E-28 | Arrowhead Springs Hotel, Granite Spring, Arrowhead Springs; 140 feet N. and 1,050 feet W. of the E 1/4 corner, Sec. 11, T.1 N., R.4 W., S. B. B. & M. NW. of hotel. Discharge estimated by U. S. D. A. at time of sampling. | S16831B | 1,900 | 0.06 | (e) | 3/12/30 | 152 | 2.64 | 88 | 79 | 69 | 498 | 26 | 4 | b276 | |
| S16842-E-28 | Lady Margaret Spring, Warm Spring, NE. of San Bernardino; 1,700 feet N. of 40th St. (Willow Nook Road), 600 feet W. of Mountain Ave., extended, 100 feet N. of swimming pool at Lady Sharp's house. Use: Swimming pool and irrigation. Water rises in bottom and sides of 6-foot deep hole. | S16842 | 1,560 | ----- | 1424 | 9/22/32 | 36.0 | 0.44 | 60 | 125 | 16 | 37 | 1 | 21 | 5 | 51 |
| S19027-G-32 | Bath Tub Spring, NE. of Redlands. N. of mouth of Warm Spring Canyon on E. side of Santa Ana River, near San Bernardino Baseline. Spring flows 0.1 miners inch at temperature of 60° C. | S19027 | 2,200 | ----- | (d) | 4/12/31 | 128 | 0.42 | 78 | 43 | 11 | 542 | ----- | 54 | 0 | b221 |
| S19416-C-23 | Miller Hot Spring, NW. of San Bernardino. In picnic ground N. of Lrtle Creek Road, 500 feet above caretaker's house at Southern California Edison Co., Ltd., intake. Use: Domestic. Caseuse: 30-inch concrete well. | S19416 | 2,950 | ----- | (d) | 9/24/32 | 53.1 | 0.80 | 87 | 98 | 28 | 87 | 0 | 8 | 2 | b84 |
| S19421-C-24 | Flying W. Spring, W. of Cozy Dell; 200 feet S. of Lone Pine Canyon Read on San Andreas Fault, or 200 feet S. and 2,600 feet W. of the NE corner, Sec. 11, T.2 N., R.6 W., S. B. B. & M. Discharge from W. P. Rose. | S19421 | 2,950 | 0.02 | (d) | 11/19/32 | 99.2 | 0.08 | 15 | 430 | 17 | 214 | Tr. | 121 | 50 | b42 |
| S19432-C-24 | Lost Lake, near Keenbrook. Sampled at W. landing on N. side of lake on center section line, 1,450 feet E. of W 1/4 corner, Sec. 12, T.2 N., R.6 W., S. B. B. & M. Elevation of water surface, 2,760.4. Lake is formed by movement of water along San Andreas fault. | S19432 | 2,760 | ----- | (d) | 10/19/32 | 94.1 | 0.11 | 10 | 357 | 12 | 239 | Tr. | 125 | 46 | b25 |
| S19952-D-34 | Big Bear Lake, NE. of San Bernardino. Sampled near lower end of lake. Gage read 45 at time of sampling. Stored water for irrigation. | S19952 | 6,710 | ----- | (d) | 3/28/31 | 24.5 | 0.01 | 12 | 137 | Tr. | 10 | ----- | 26 | 11 | b7 |
| SUBSOIL WATERS | | | | | | | | | | | | | 96 | 42 | 162 | |
| S15981-L-23 | W. J. Hole, Arlington drain outlet, SW. of Arlington. Sampled at outlet of 2½-inch concrete pipe, 100 feet N. of A. T. & S. F. Ry., 1 mile W. of Buchanan St. Use: Irrigation. Drains subsoil waters from vicinity of Arlington W. of Van Buren St. No. 3822F. | S15981 | 670 | ----- | (d) | 7/28/32 | 127 | 0.24 | 47 | 308 | 192 | 97 | 23 | 83 | 32 | 138 |
| S16000-L-24 | Tile drain standpipe, SW. of Arlington; 0.25 mile SW. of Pierce St., 755 feet NW. of Magnolia Ave. Standpipe is 55 feet S. of Twin Buttes Water Co., Plant I. Use: Irrigation. Bailey No. 3822F. | S16000 | 690 | ----- | (d) | 12/13 | 9/1/32 | 0.26 | 48 | 317 | 224 | 91 | 14 | 84 | 41 | 142 |
| S16825-K-22 | Fisher Ranch, drainage ditch, W. of Norco. Sampled 0.2 mile E. of Harrison Ave., extended, 600 feet S. of Chandler St. Drainage flows into Santa Ana River. | S16825 | 580 | ----- | (d) | 10/4/32 | 10/3/32 | 0.22 | 39 | 262 | 151 | 83 | 13 | 84 | 30 | 99 |
| S16908-K-24 | Southern California Junior College, drain, NW. of Arlington. Sampled at Schuyler Ave., 400 feet northeasterly from Kaser Park Ave. | S16908 | ----- | ----- | (e) | Dec., 1930 | 160 | 0.37 | 47 | 305 | 119 | 18 | 108 | 50 | 50 | 191 |
| S16969-K-25 | Orchard surface drainage, S. of Arlington; 600 feet NW. of Victoria Ave., 10 feet SW. of Gibson Street. Sample from discharge of 1.5-inch drain pipe. | S16969 | 880 | ----- | (d) | 1/30/33 | 21.3 | 0.12 | 24 | 64 | 16 | 11 | Tr. | 11 | 6 | 8 |

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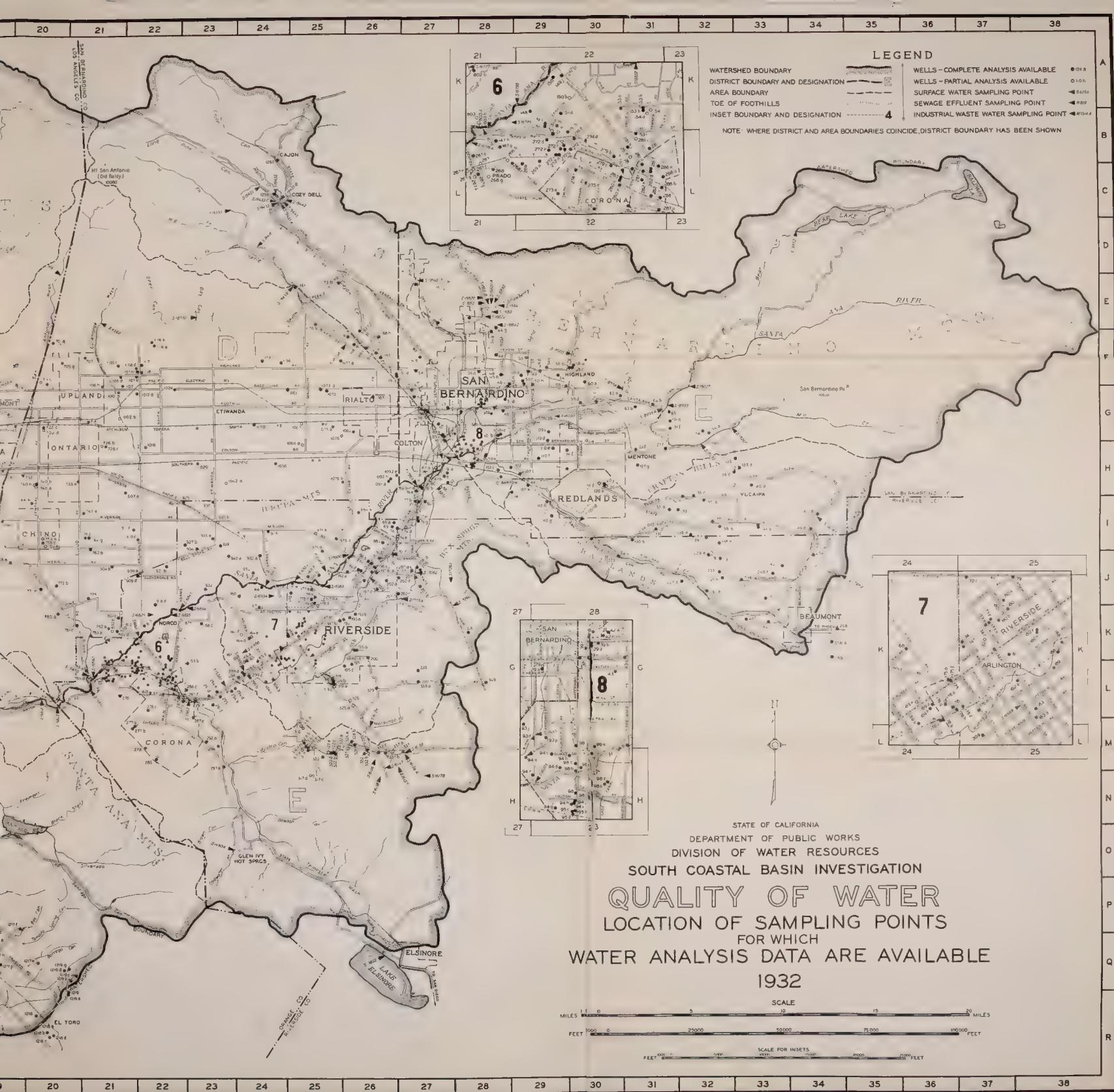
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